

# **EXHIBIT H**

**ETHICON, INC.**

a Johnson & Johnson company

P.O. BOX 151  
SOMERVILLE • NEW JERSEY • 08878-0151

October 15, 1992

cc: B. Matлага  
J. McDivitt  
↓  
A. Melveger  
RDCF

Mark Cafone

SEVEN YEAR DATA FOR TEN YEAR PROLENE™ STUDY: ERF 85-219

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This report contains a summary of IR, IV, GPC, OM and SEM data supporting this study.

**IR and IR Microspectroscopy (D.Burkley)**

IR examinations were done for all explants at all sites to verify the suture identity for each explant. For all explanted sutures recovered from all 6 sites for every dog in this study, IR data showed each suture to be correctly identified.

IR microspectroscopy was used to examine cracked areas in ETHILON, Novafil and PROLENE™ explants. IR spectra obtained for cracked PROLENE specimens (Figure A) showed possible evidence of slight oxidation (a broadened weak absorbance at about 1650 cm<sup>-1</sup>). IR spectra obtained for cracked areas of ETHILON and Novafil did not differ from uncracked areas (Figures B and C), but expected IR absorbances for oxidation would be masked by the strong carbonyl absorbances normally observed for these sutures. Figures D and E show pictures of the areas examined by IR microspectroscopy for ETHILON and Novafil.

**IV and GPC (E.Muse)**

Gel Permeation Chromatography (GPC) was run on PROLENE sutures explanted from dogs after seven years. The GPC data was compared to data from a current 4/0 PROLENE suture. The results indicate that there was no significant difference in molecular weight between the 4/0 PROLENE control and the seven year explants.

The following PROLENE explant samples were analyzed:

Dog 1995 - site 3 (SR33853)  
Dog 2007 - sites 1 and 6 (SR34003)  
Dog 2008 - site 2 (SR34066)  
Dog 2019 - sites 2 and 3 (SR34180)

The GPC analysis was run on the Waters 150C GPC at 140°C using 1,2,4 trichlorobenzene as a mobile phase with Waters GPC columns. The instrument was calibrated with polypropylene standards.

Inherent Viscosity (IV) was determined on ETHILON™ and Novafil sutures explanted from dogs after seven years. The IV data<sup>1</sup> was compared to IV data from one and two year explants. The following results were found:

- 1) No significant differences were seen in IV values after one and two years.
- 2) Seven year IV values ranged from 75% to 93% of the one and two year IV values for ETHILON sutures.
- 3) Seven year IV values ranged from 75% to 90% of the one and two year values for Novafil.

The dog explant samples examined were from duplicate sites on four dogs for each time period (one, two and seven years). The IV data was determined using concentrations of 0.1 dl/g with HFIP as a solvent at 25°C.

#### **OPTICAL MICROSCOPY and SCANNING ELECTRON MICROSCOPY (E.Lindemann)**

#### **Conclusions**

- The 7 year in-vivo results generally substantiated the five year findings. They also closely correspond to the observations of explanted sutures from the dog that died prematurely after 6 years and 10.5 month implantation time.
- Degradation in PROLENE is still increasing and PVDF, even though a few cracks were found, is still by far the most surface resistant in-house made suture in terms of cracking.
- Of the eight explanted ETHILON sutures all showed heavy cracking and, in many cases, abrasion of the dyed surface layer. A decrease in the suture diameter was apparent in several cases.
- Cracks were not found in the seven Novafil explants. However a few longitudinal scratches probably due to mechanical damage and one longitudinal crack were observed.

#### **Introduction**

In November 1985 twenty-four dogs had been implanted with sets of ETHILON, PROLENE, PVDF and Novafil sutures for a ten year study. In 1990, after five years, explants from 5 beagle dogs were described in " TEN YEAR IN-VIVO STUDY SCANNING ELECTRON MICROSCOPY FIVE YEAR REPORT" by Elke Lindemann. The next explantation, after 7 years, was to start in June 1992. However, after 6 years and 10.5 months dog #1995 died prematurely. The microscopical examination of those explants was described in " TEN YEAR IN-VIVO STUDY: SCANNING ELECTRON AND LIGHT MICROSCOPY INTERIM REPORT ON DOG #1995 AFTER 6 YEARS, 10.5 MONTH, SR# 33788 and are included in the conclusion section of this report. In June of 1992 after 7 years, sutures were explanted from another set of 4 dogs. This report presents the results of the light and scanning electron microscopical examination of those explants.

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<sup>1</sup>SR33853, SR34003, SR34066, SR34180

Experimental

Four dogs had been implanted in November 1985 with the following 5-0 sutures:

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Dog 2001	PVDF	ETHILON	Novafil	PROLENE	PROLENE	Novafil
Dog 2007	PROLENE	Novafil	ETHILON	PVDF	PVDF	PROLENE
Dog 2019	Novafil	PROLENE	PROLENE	PVDF	ETHILON	ETHILON
Dog 2008	ETHILON	PROLENE	Novafil	PVDF	ETHILON	PVDF

Starting in June of this year the above dogs were sacrificed in weekly intervals. Approximately 20cm long sections of the explanted sutures were received in microscopy in glass vials which were kept refrigerated until they were examined.

Also the explanted LC 100 clip with about 2cm of each suture bundle was delivered in the same vial. The clip and the attached sutures were still deeply embedded in the surrounding tissue. These 'not cleaned' sutures were supposed to answer the question whether the process of cleaning and tissue removal might be responsible for an observed cracking. The primary concern of this study was however to examine the long pieces of explanted suture. Most of these specimens were still surrounded with some tissue, fortunately at a level low enough not to obscure examination in the light microscope under transmitted light. It was possible to examine the embedded PROLENE suture where the cracking of the suture was seen through the tissue. For this reason and time constrains the clip-attached sutures were not examined at this time.

To show that the drying and coating with a metal under vacuum, necessary for SEM examination, did not introduce cracking and other surface defects each strand of each long suture was 100% inspected in the Olympus Light Microscope in water. Oil, the usual medium for light microscopical inspection, was not chosen for this examination in order to eliminate surface changes during sample preparation. To cut down on lensing effects of the curved suture, the samples were photographed in polarized light using a 10x phase condenser with an ordinary transmitted light 20x objective (a 20x phase condenser was not available). The light diffraction introduced by the phase condenser was enough to allow an easier focusing at the focal plane of the largest diameter. Photomicrographs were prepared at 285x of areas which showed surface changes.

Strands of the suture including the above areas were then prepared for SEM observation in the JEOL JSM 840 AII by coating them under vacuum with gold to provide an electron conductive surface. Photomicrographs were prepared at 500x magnification.

**Results**

**1) LM and SEM of PROLENE suture explants from seven implantation site.**

In Figure 1A through 1D one area per site from each of the four dogs is shown in transmitted light. Out of seven sites cracking was found on PROLENE sutures from three sites. Notice the cracks observable through the still adhering tissue in Figure 1A in the suture from site 2.

In Figure 1 and 2 SEM views of areas are shown after most of the tissue had been carefully removed. Again out of seven sites sutures from three sites had areas which showed cracking.

**2) LM and SEM of ETHILON suture explants from six implantation sites.**

In Figure 3A through 3C sutures are shown from six different sites. Transmitted light allowed visualization of the differences between the intact dyed surface layer and the underlying colorless layers of the suture. In Figure 3A site 5 and Figure 3C site 3 the colorless area had not only lost its dyed surface layer but was abraded to such a degree that a decrease in suture diameter was found.

In Figures 3 and 4 the cracking and abrasion on sutures from all six sites, as observed with the SEM, is shown. Here also the decrease in diameter is particularly dramatic in Figure 3 site 1.

**3) LM and SEM of PVDF suture explants from six implantation sites.**

Figure 5A through 5C show six sites of PVDF explants as seen with the light microscope. Notice the intact surface on all the sutures.

In Figures 5 and 6 the SEM examination of the PVDF sutures is shown. Only on the suture from one site (Figure 6 site 6) some cracks are found. The surfaces of the sutures from the other five sites show some striations which could be mechanical damage, otherwise the surfaces look intact. The contaminant on the site 4 (Figure 5) suture is tissue which had not been removed completely.

**4) LM and SEM of Novafil suture explants from five implantation sites.**

Figure 7A through 7C show the Novafil sutures as observed with the light microscope. All surfaces from all sites look undamaged. Figure 7 and 8 show the SEM examination of these sutures. A few longitudinal scratches and cracks were found, see sites 1,2,3 (Figure 7,8). Also on the site 2 suture (Figure 8) still adhering tissue is found.

**5) Degradation dependency on implantation site**

To probe the question as to whether one implantation site might be more or less stressful towards the suture, a comparison was made of the six sites.

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Dog 1995	ETHILON cracks	PVDF	PROLENE cracks	Novafil	Novafil cracks	ETHILON cracks
Dog 2001	PVDF	ETHILON cracks	Novafil	PROLENE	PROLENE cracks	Novafil
Dog 2007	PROLENE	Novafil scratch	ETHILON cracks	PVDF	PVDF	PROLENE cracks
Dog 2019	Novafil scratch	PROLENE	PROLENE	PVDF	ETHILON cracks	ETHILON cracks
Dog 2008	ETHILON cracks	PROLENE cracks	Novafil cracks	PVDF	ETHILON cracks	PVDF cracks

The only site, in the 5 dogs of this study, from which sutures were explanted that showed no surface damage was site 4. However, of those five sutures three were PVDF and one was Novafil. Those are the sutures that showed only marginal surface changes in this study. Therefore this observation can be discounted.

Elke Lindemann

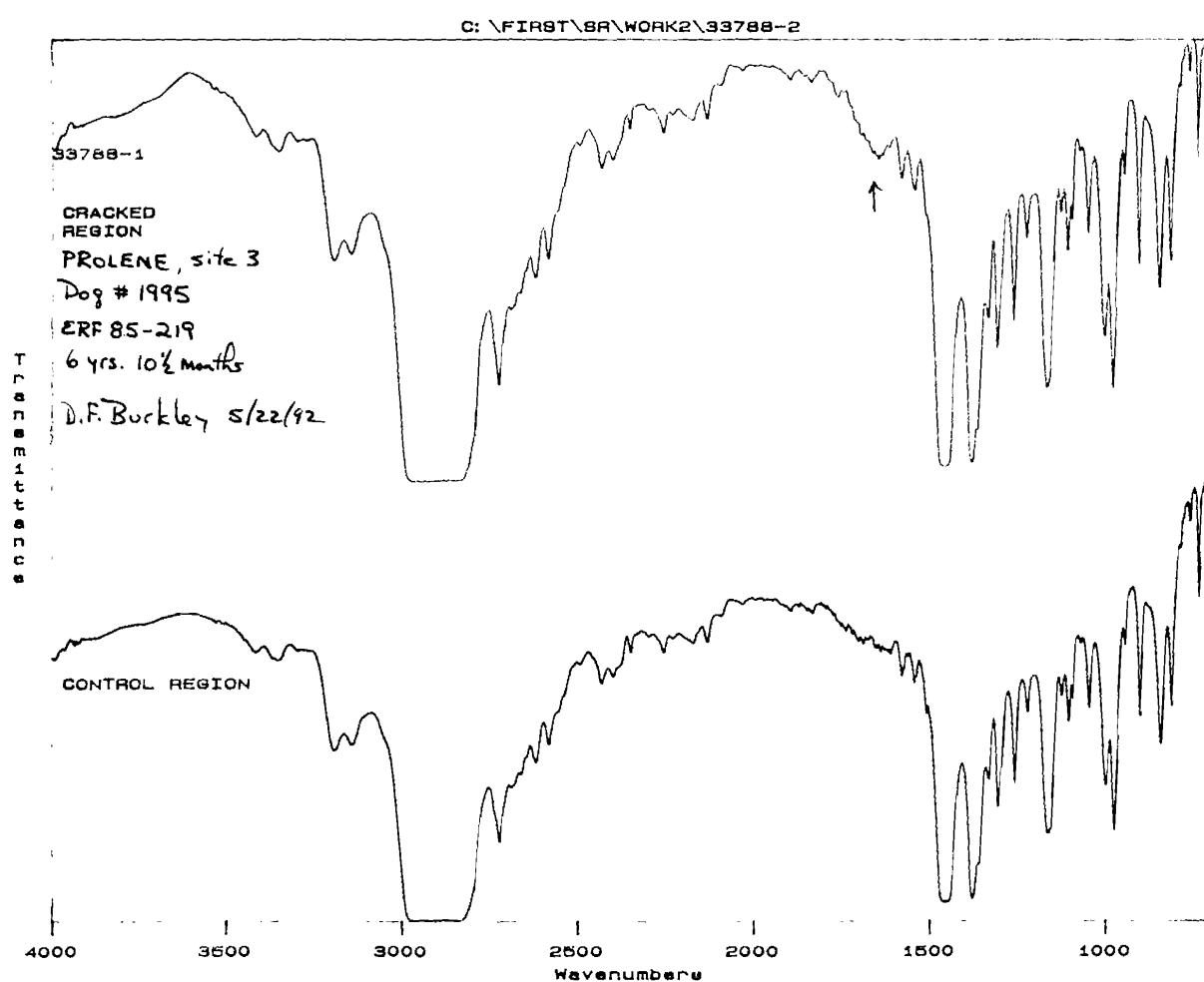
Eugene P. Muse

Daniel F. Burkley

Attachment

7YEAR.DFB

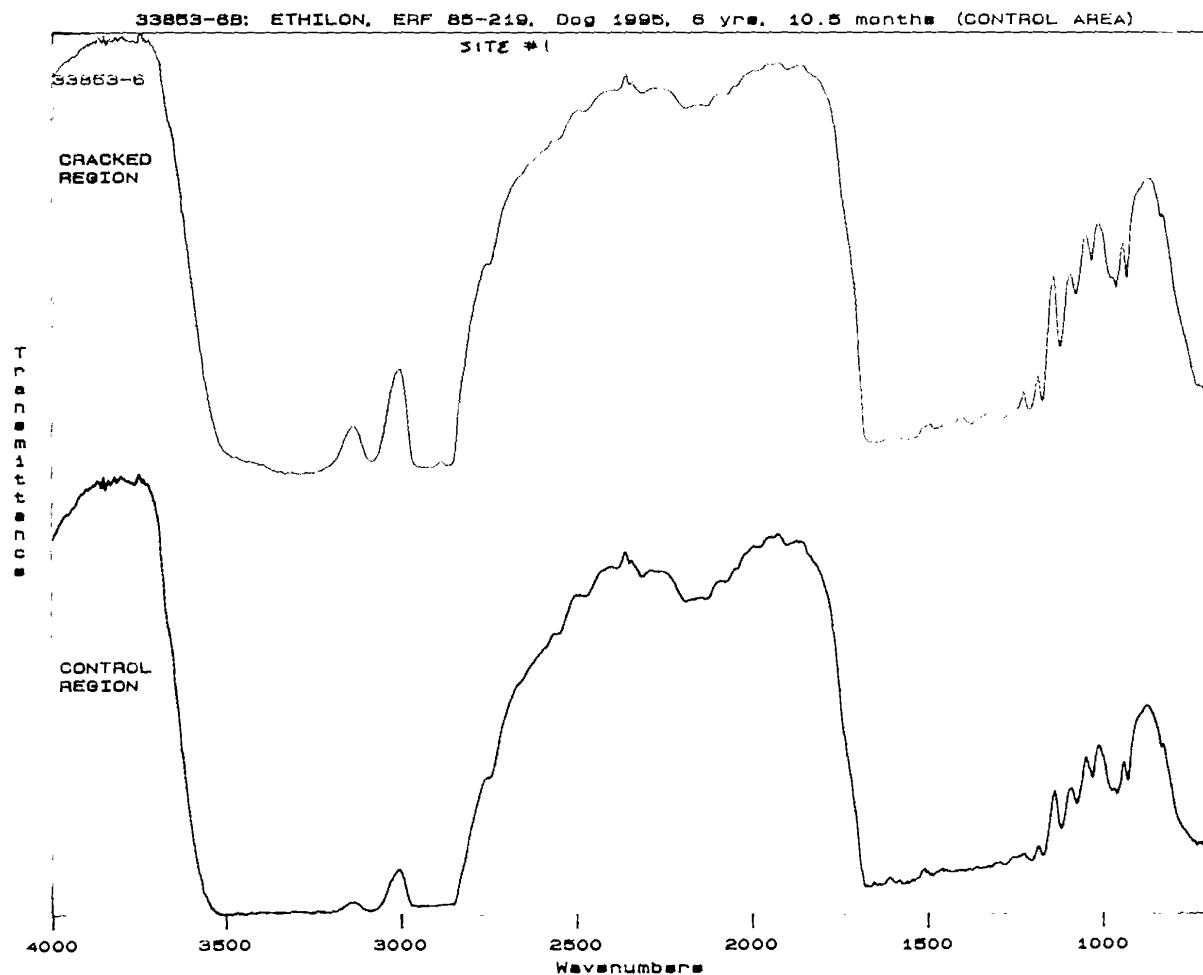
Figure A - Comparison IR Spectra of Cracked and Non-cracked Regions of PROLENE (SR33788)



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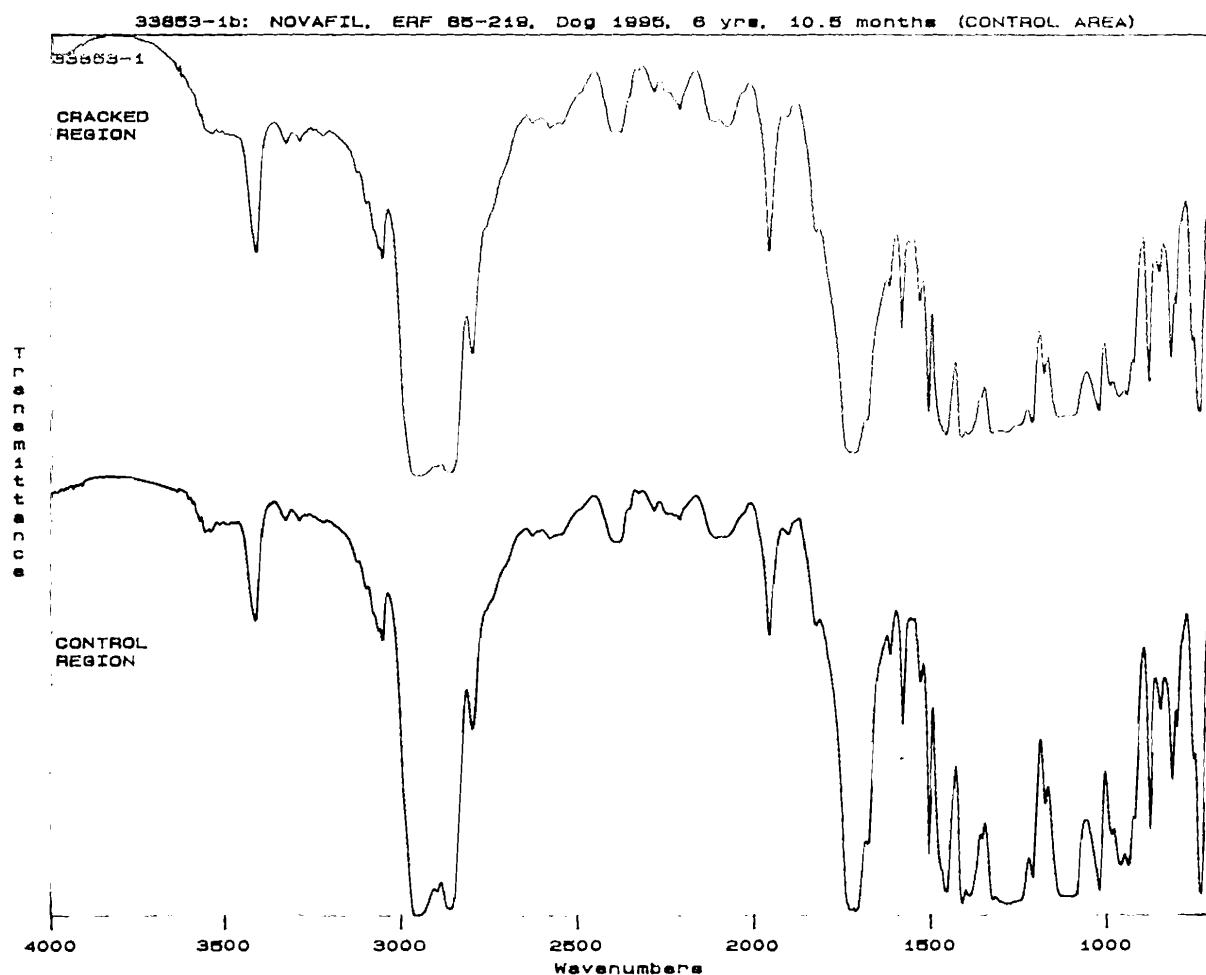
Figure B - Comparison IR Spectra of Cracked and Non-cracked Regions of ETHILON (SR33853)



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ETH.MESH.09888193

Figure C - Comparison IR Spectra of Cracked and Non-cracked Regions of Novafil (SR33853)



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ETH.MESH.09888194

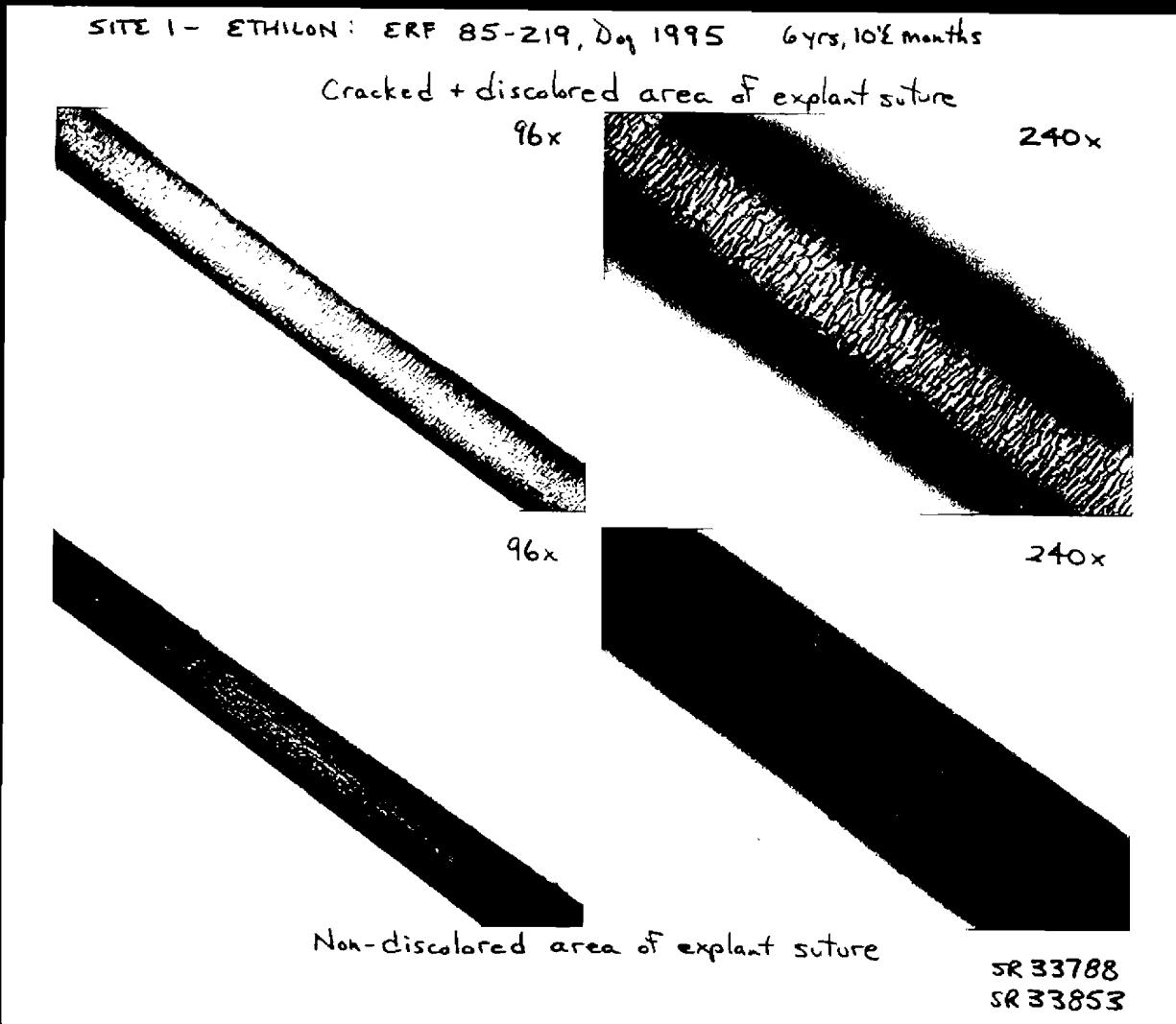


Figure D - Comparison Pictures of Cracked and Non-cracked Regions of ETHILON (SR33853)

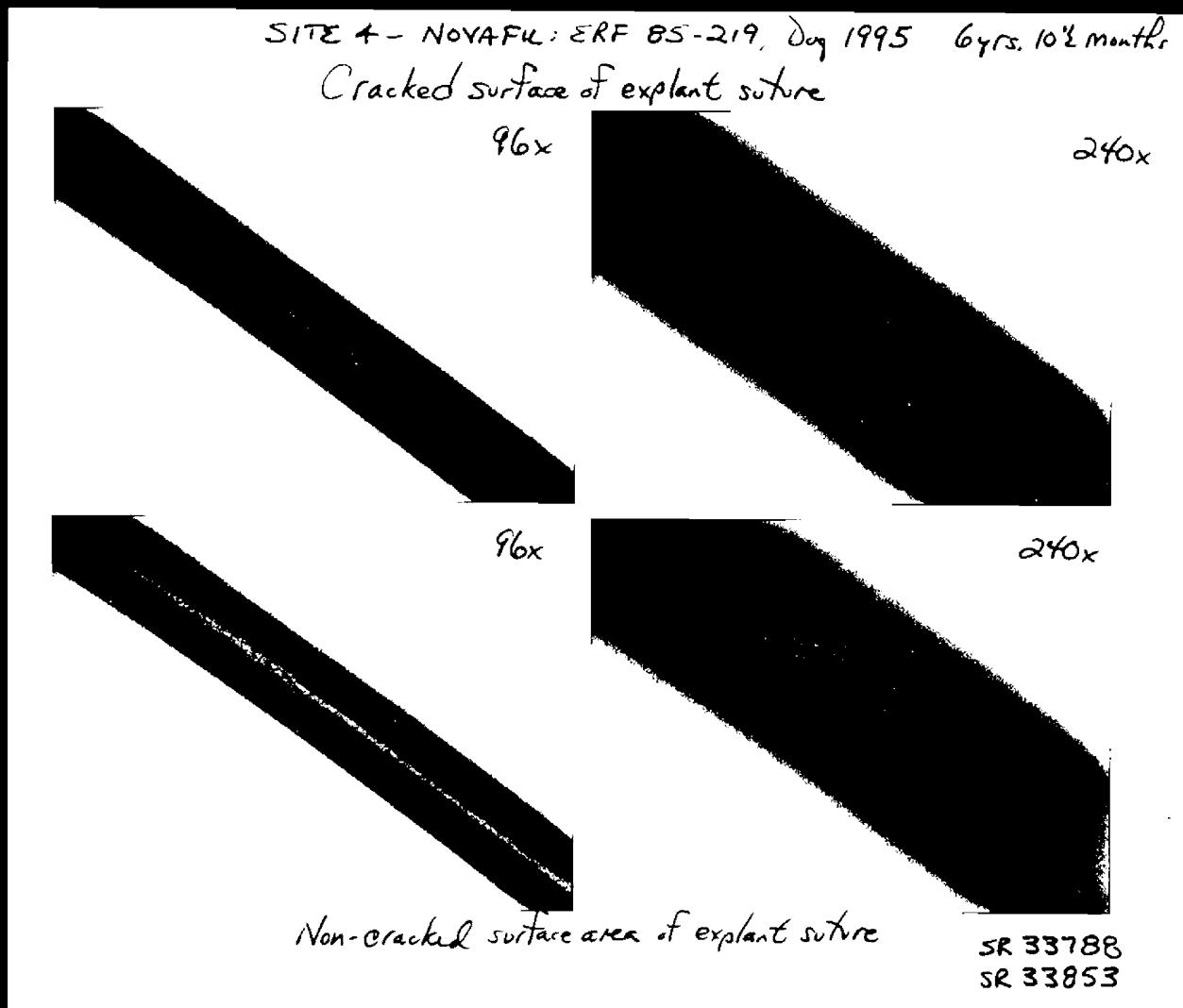
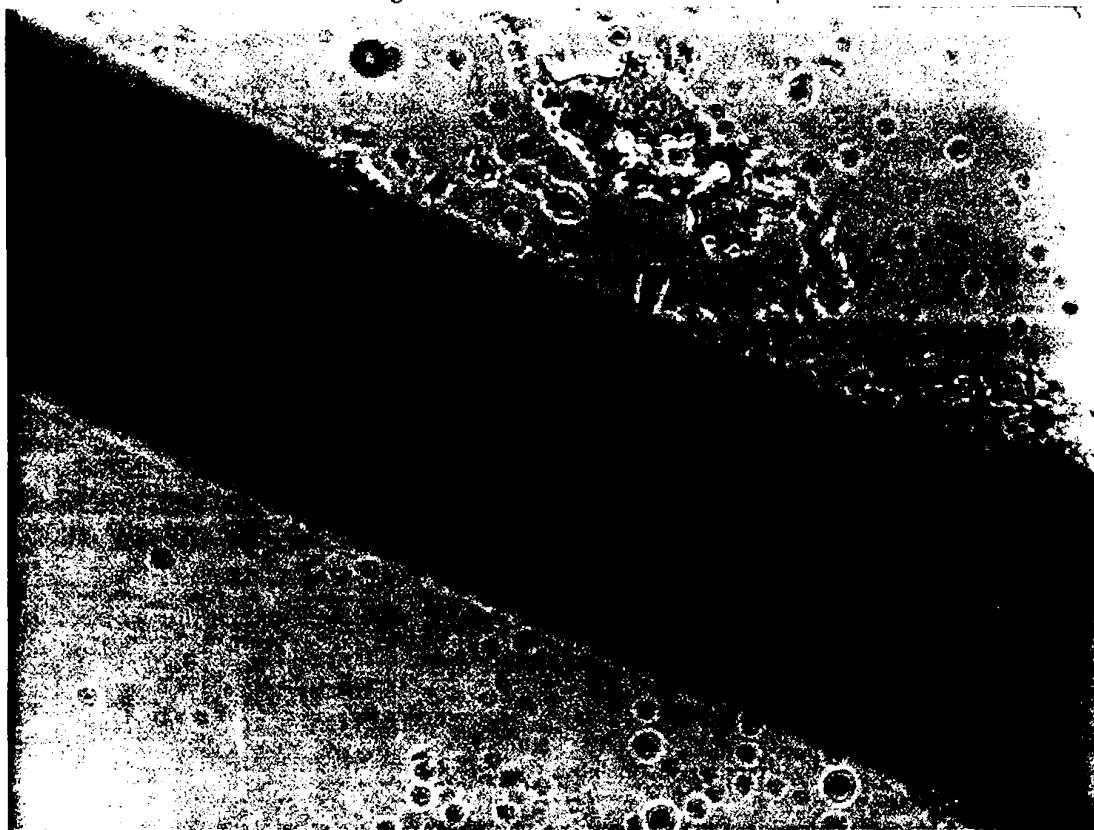
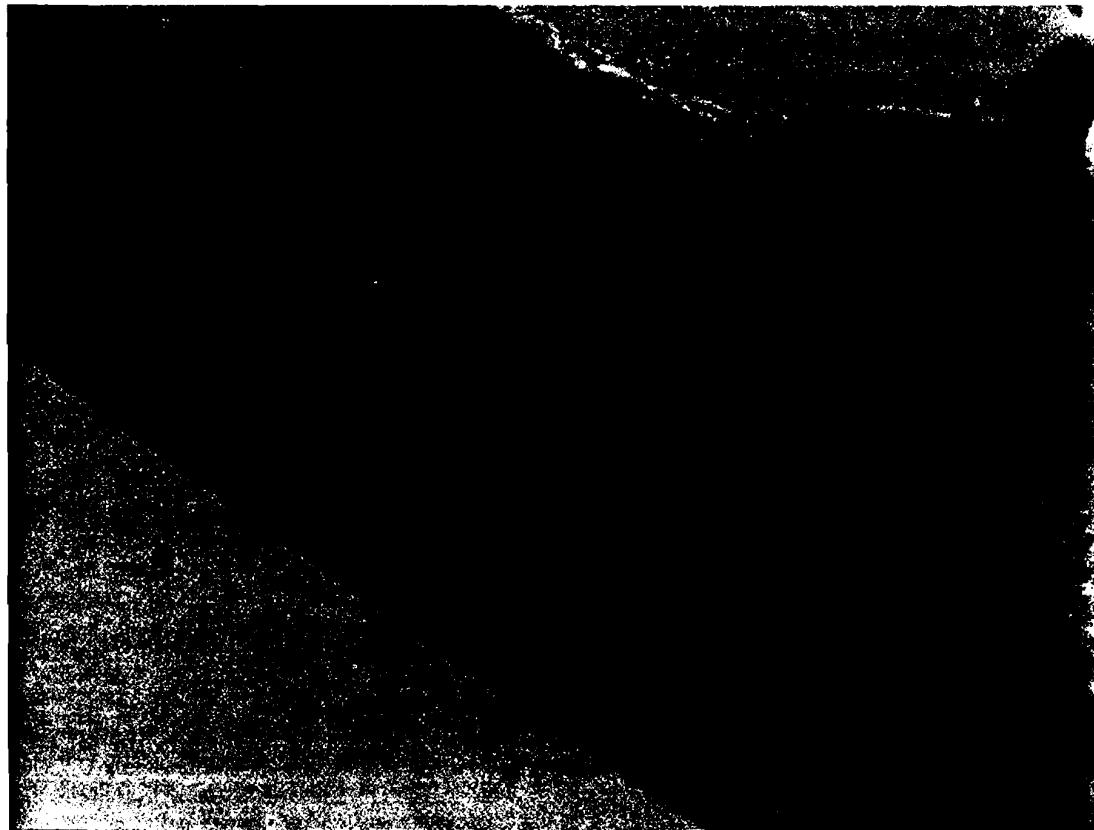


Figure E - Comparison Pictures of Cracked and Non-cracked Regions of NovaFil (SR 33853)

Figure 1A 7 Year Prolene Explants



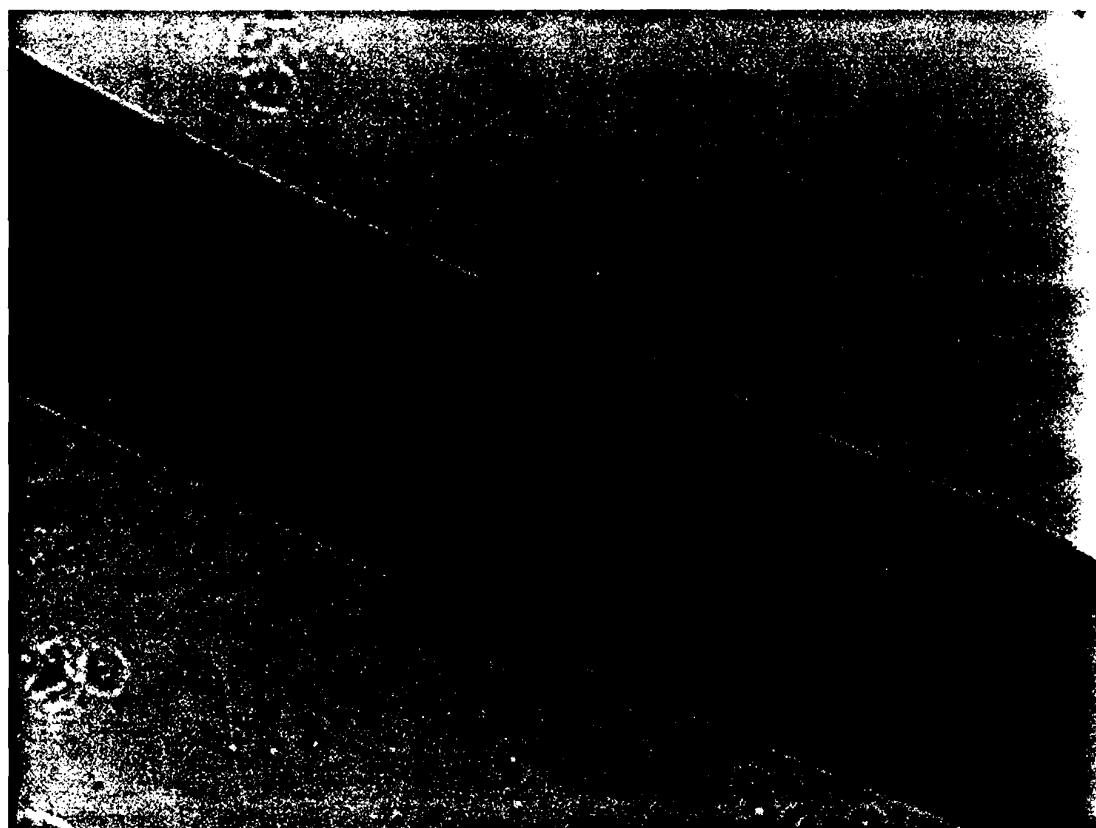
dog 2001 site 5



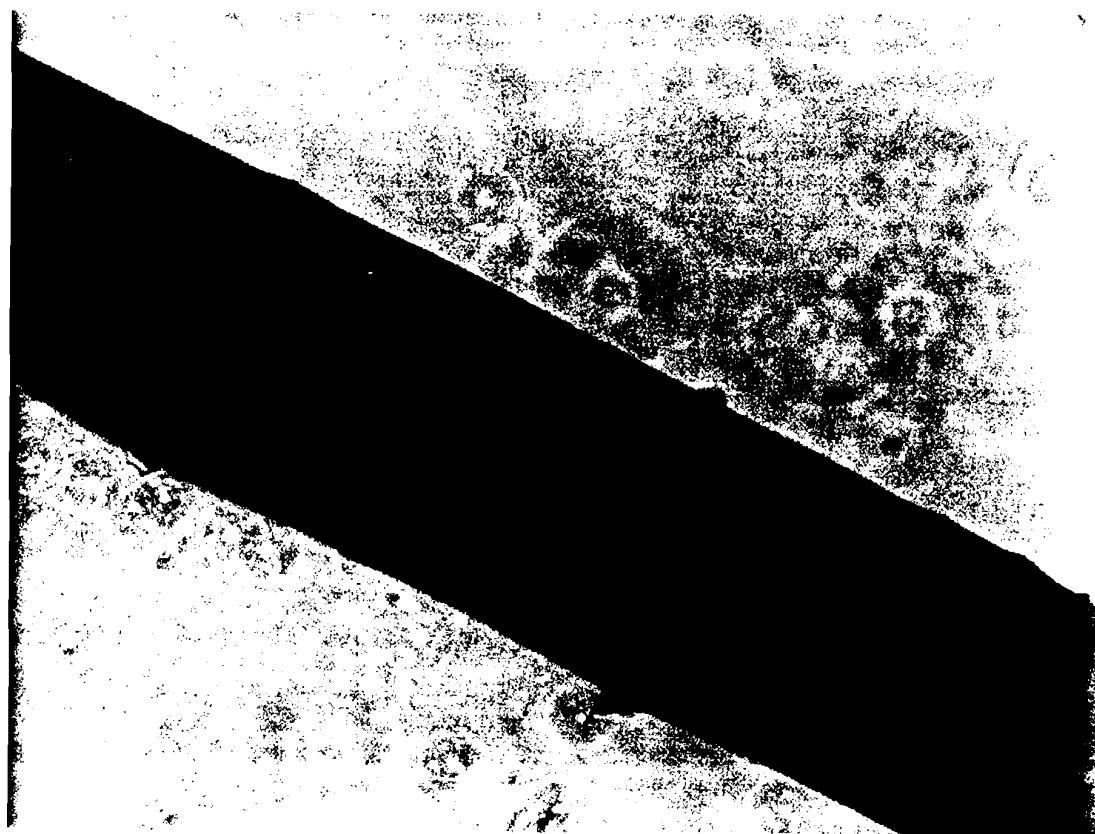
dog 2008 site 2

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Figure 1B 7 Year Prolene Explants



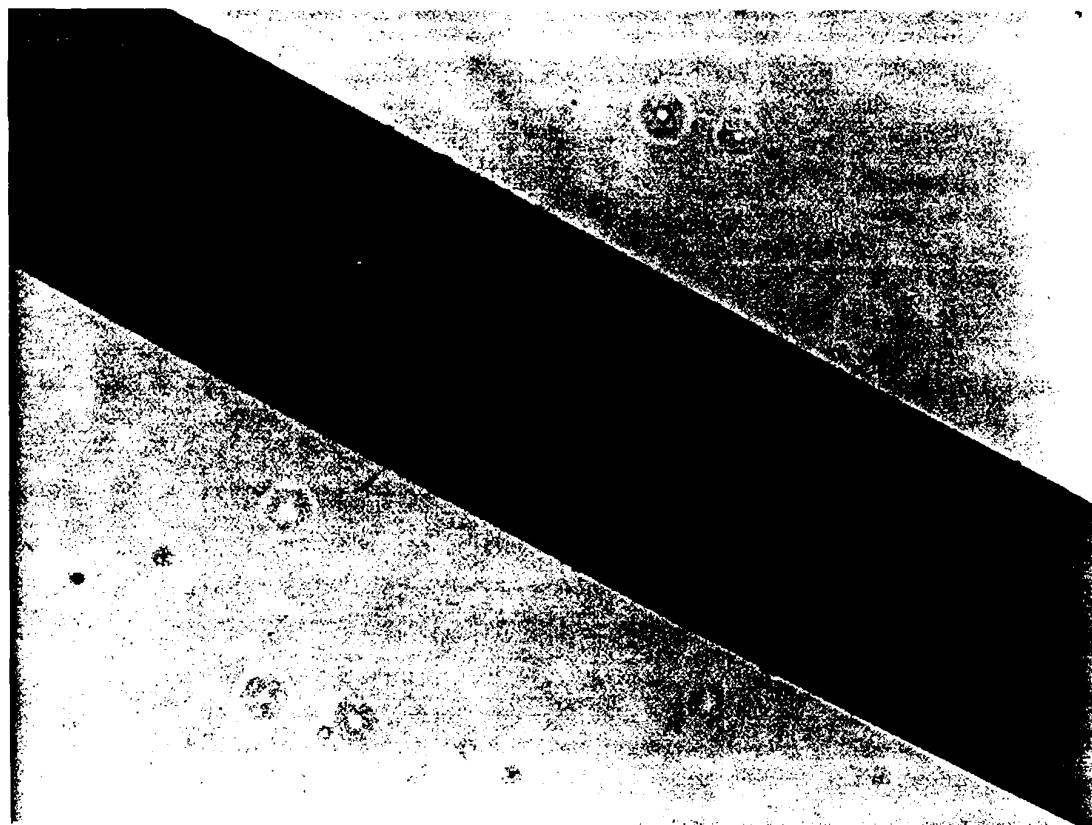
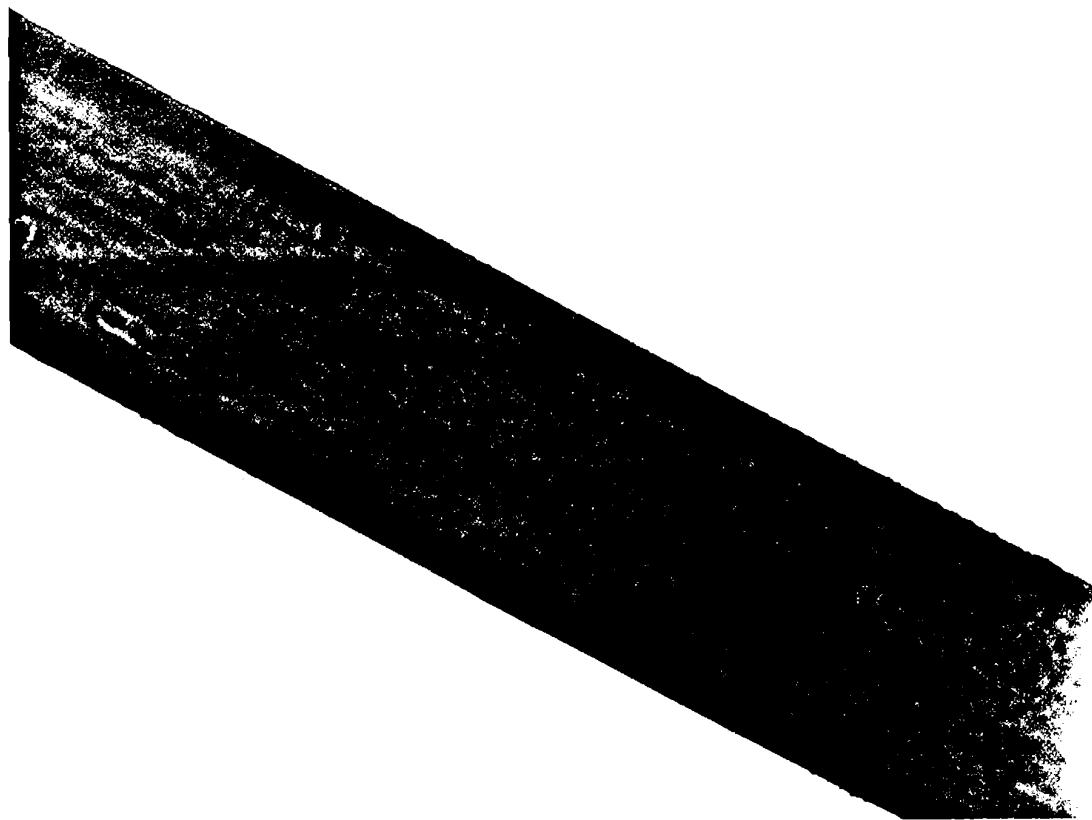
dog 2007 site 6



dog 2019 site 2

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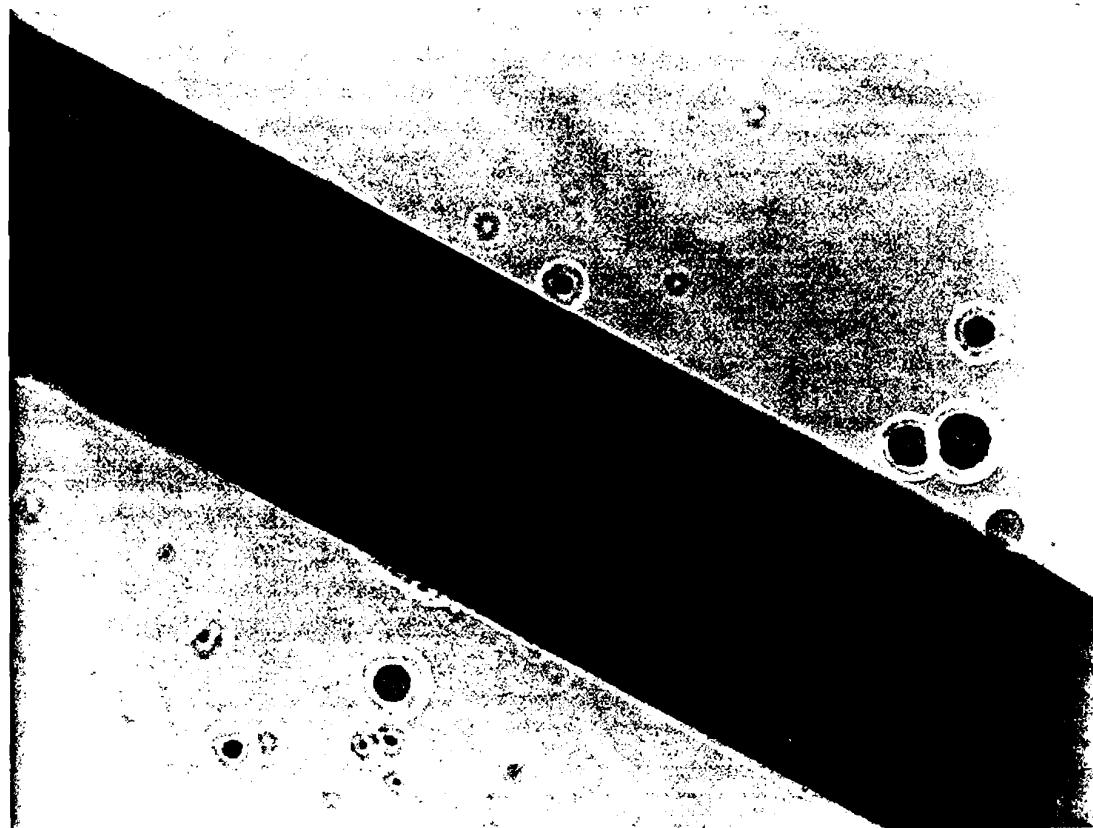
Figure 1C 7 Year Prolene Explants



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Figure 1D 7 Year Prolene Explants

dog 2001 site 4



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Figure 1 7 Year Prolene Explants

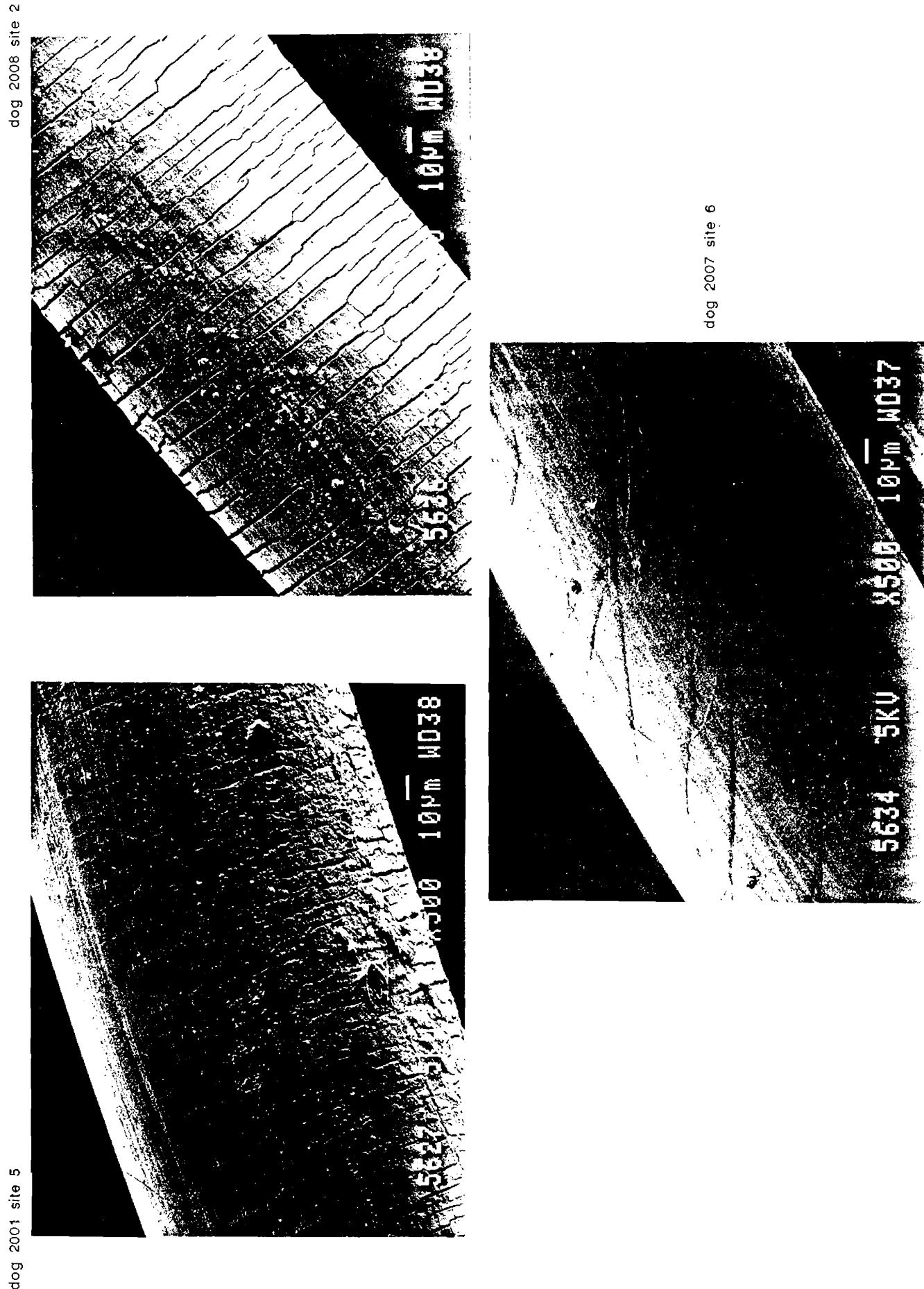


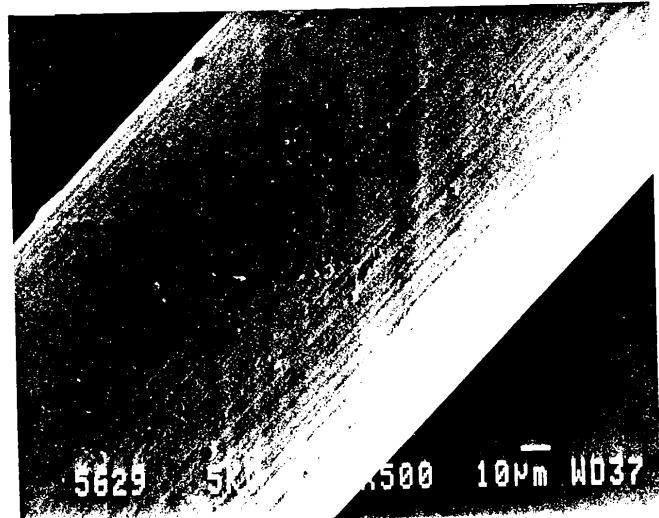
Figure 2 7 Year Prolene Explants

dog 2001 site 4

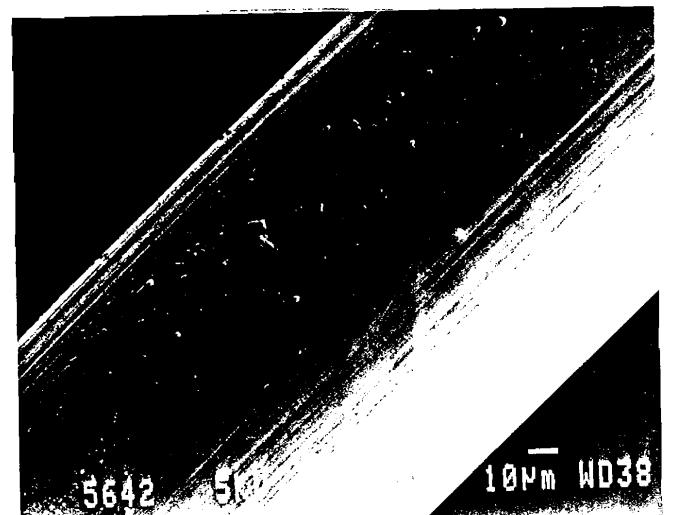
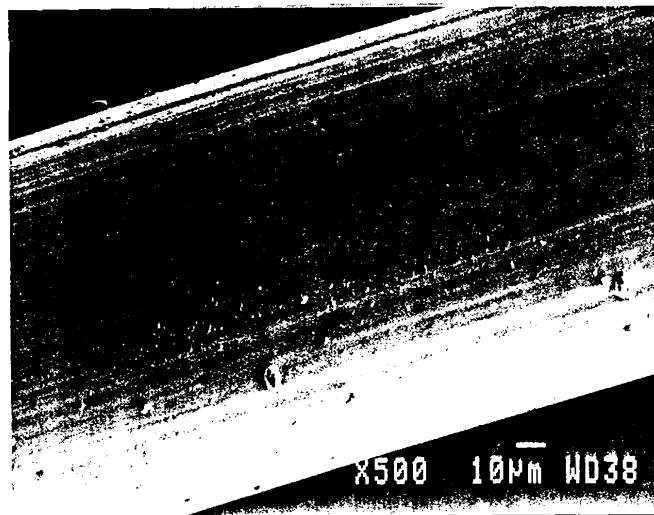


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dog 2007 site 1



dog 2019 site 3

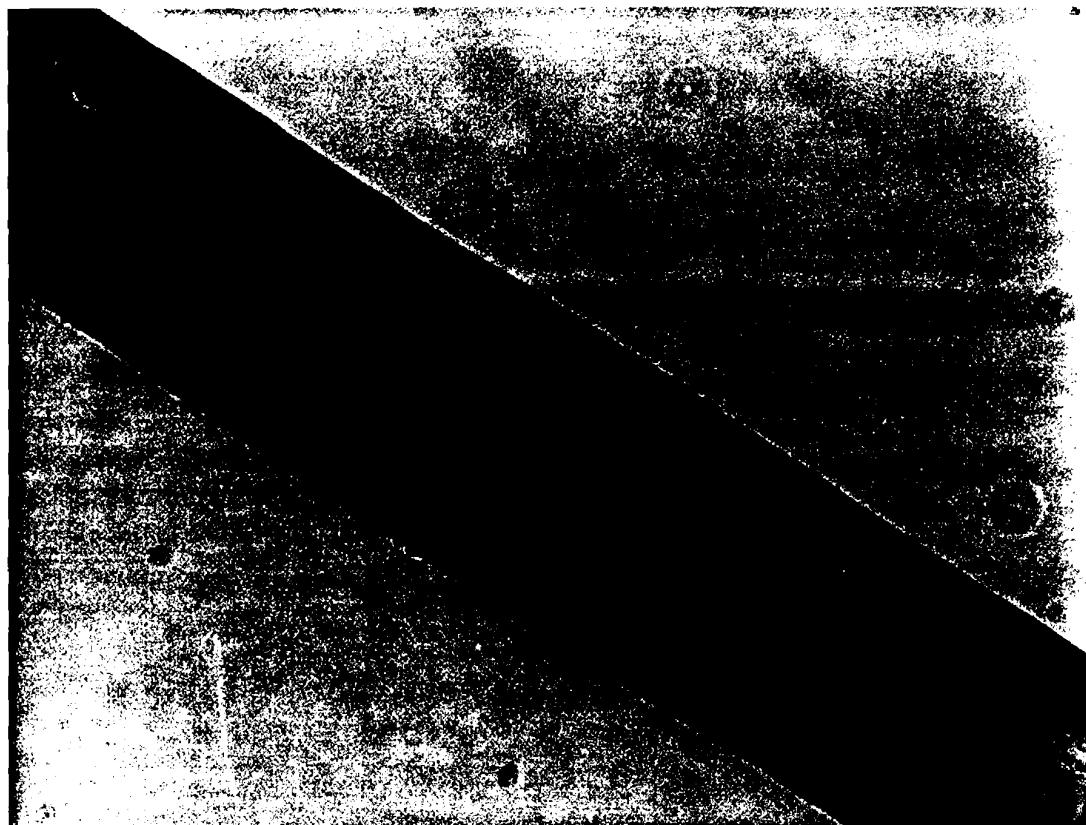


dog 2019 site 2

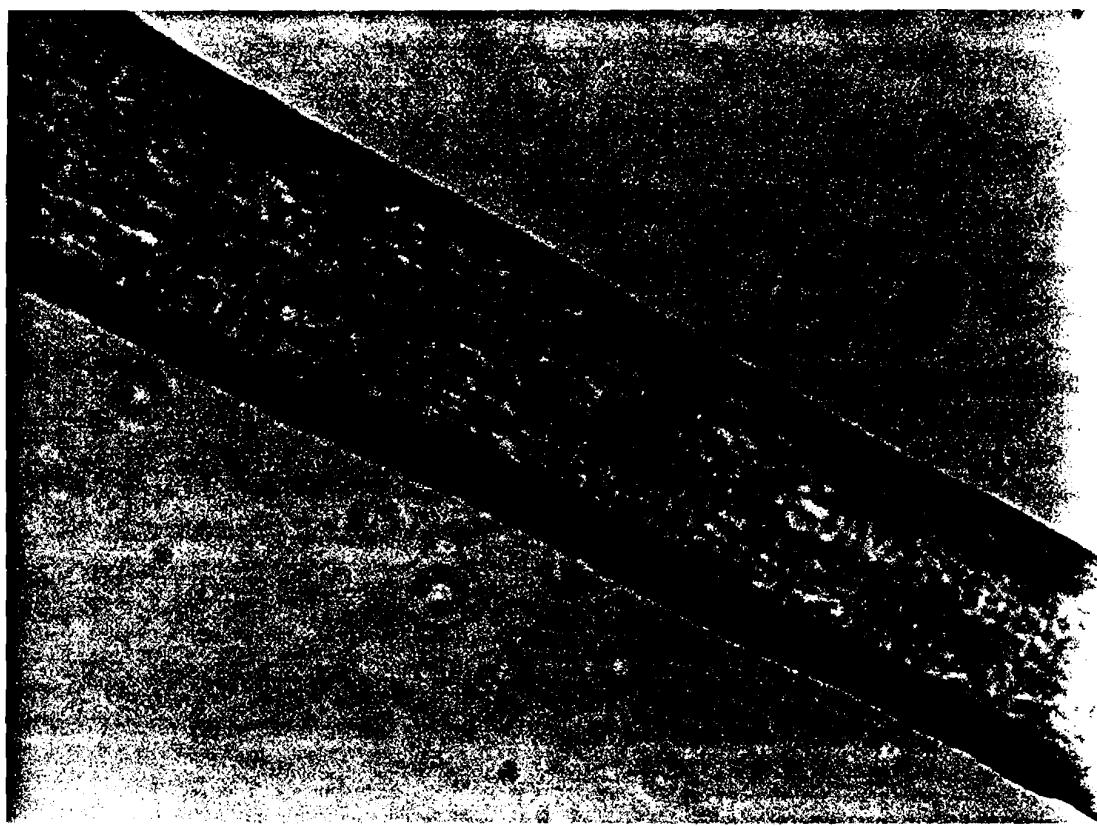
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ETH.MESH.09888202

Figure 3A 7 Year Ethilon Explants



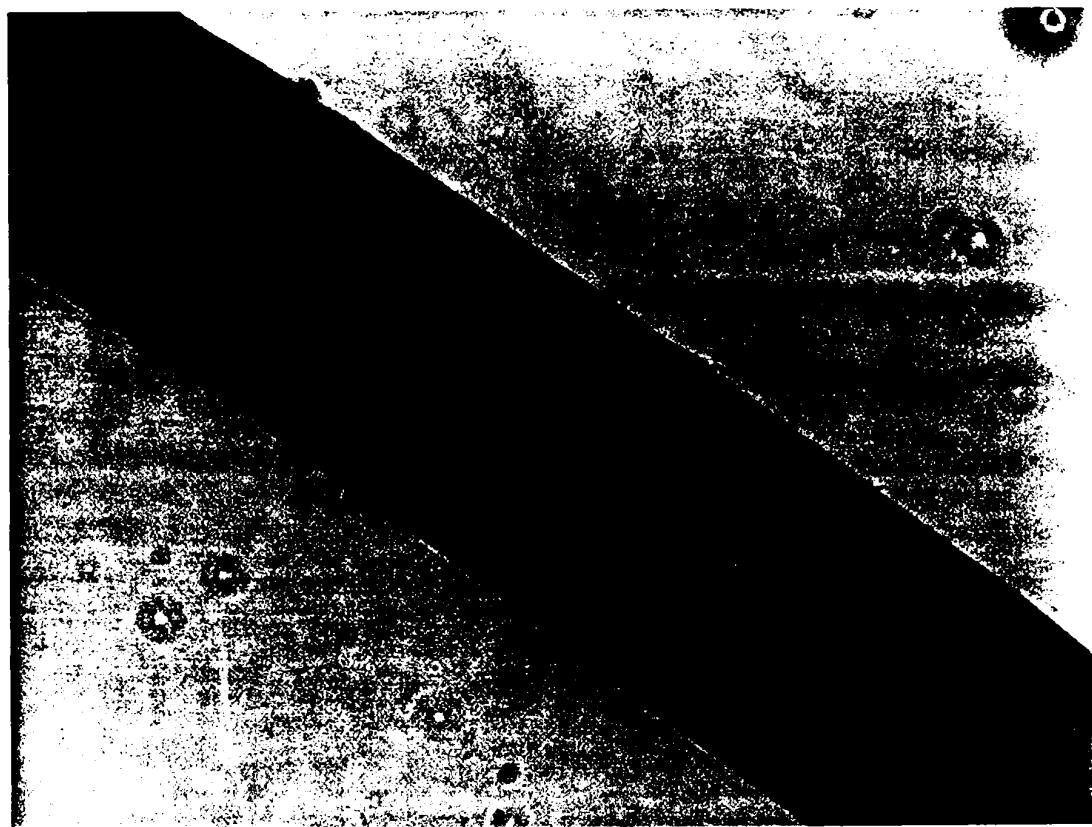
dog 2019 site 6



dog 2008 site 5

E.Lindemann 7/15/92 SR# 34097

Figure 3B 7 Year Ethilon Explants



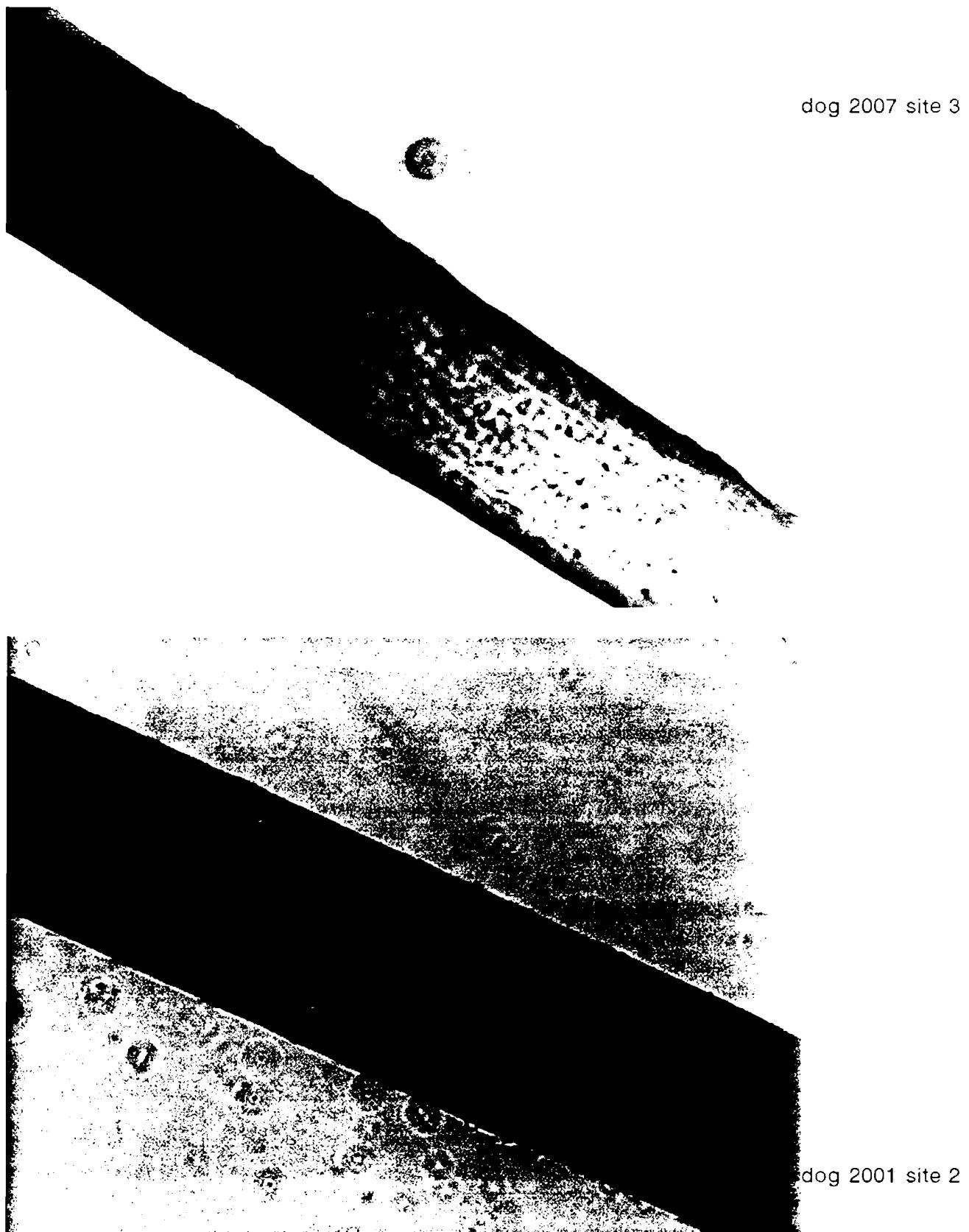
dog 2019 site 5



dog 2008 site 1

E.Lindemann 7/15/92 SR# 34097

Figure 3C 7 Year Ethilon Explants

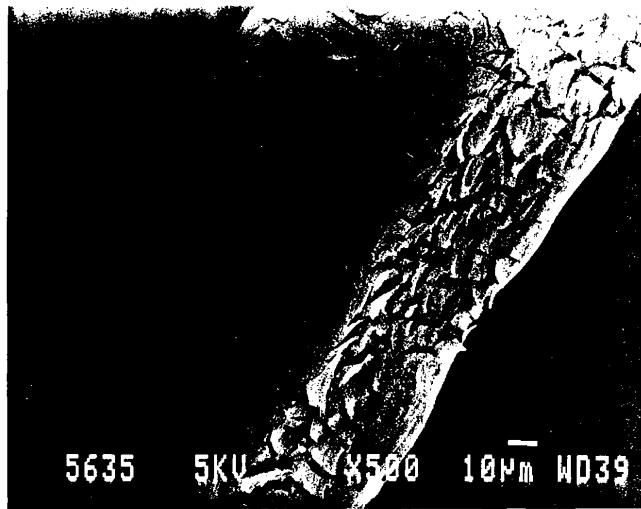


E.Lindemann 7/15/92 SR# 34097

Figure 3 7 Year Ethilon Explants

E. Lindemann 7/9/92 SR# 33985\*

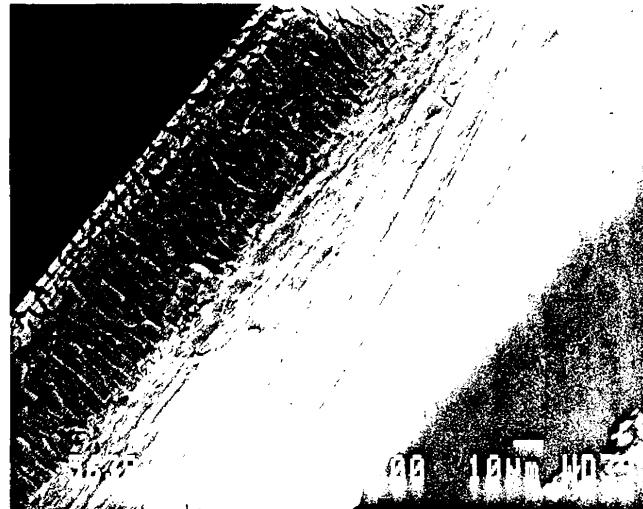
dog 2008 site 1



dog 2008 site 5



dog 2019 site 5



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ETH.MESH.09888206

E. Lindemann 7/9/92 SR# 339985

Figure 4 7 Year Ethilon Explants

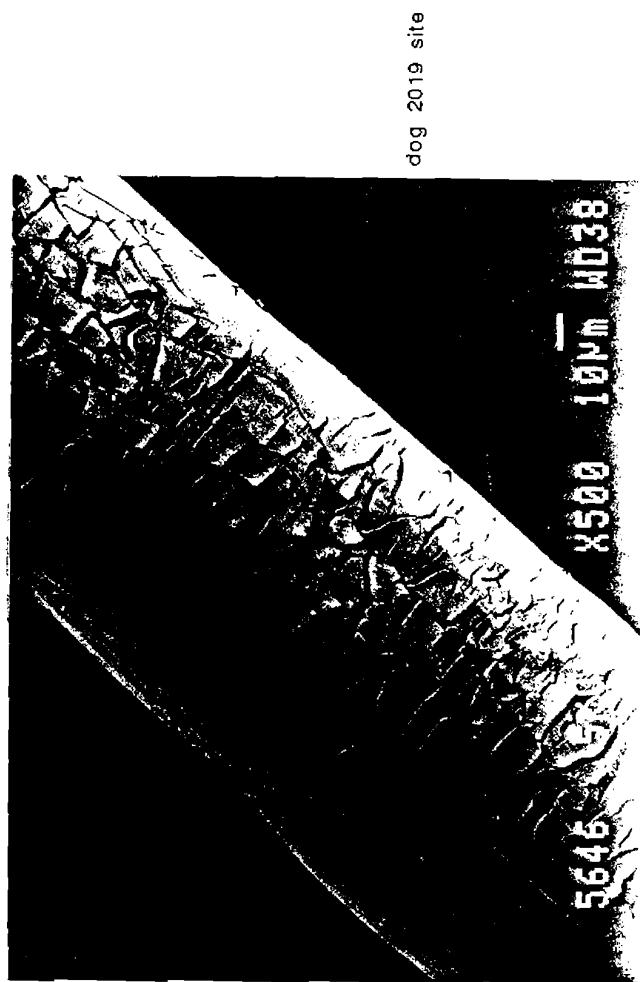
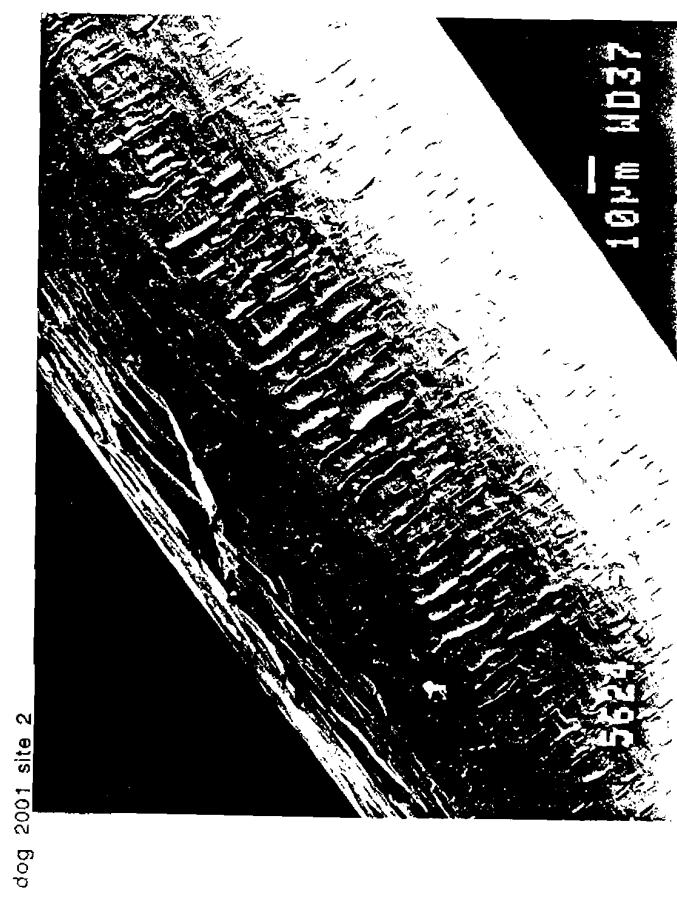
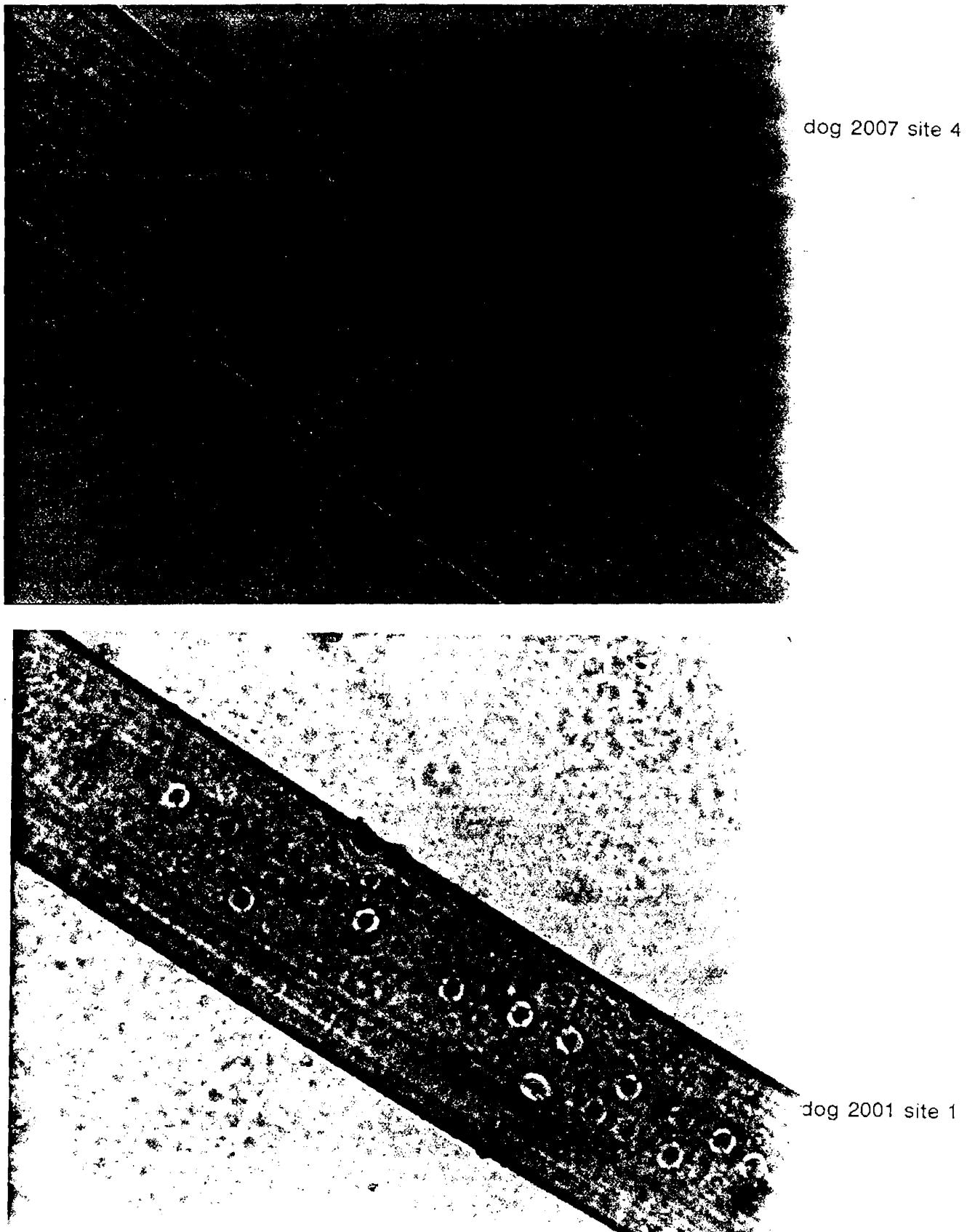


Figure 5A 7 Year PVDF Explants



E. Lindemann 7/15/92 SR# 33985

Figure 5B 7 Year PVDF Explants



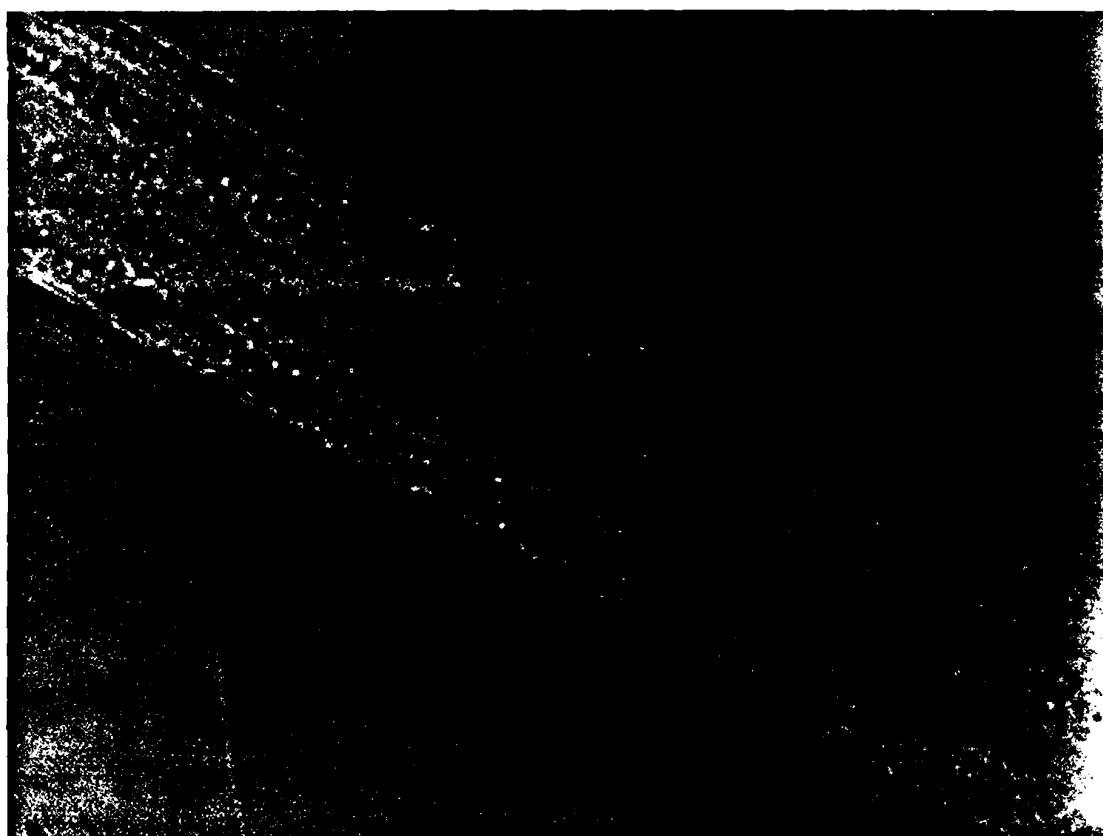
dog 2008 site 4



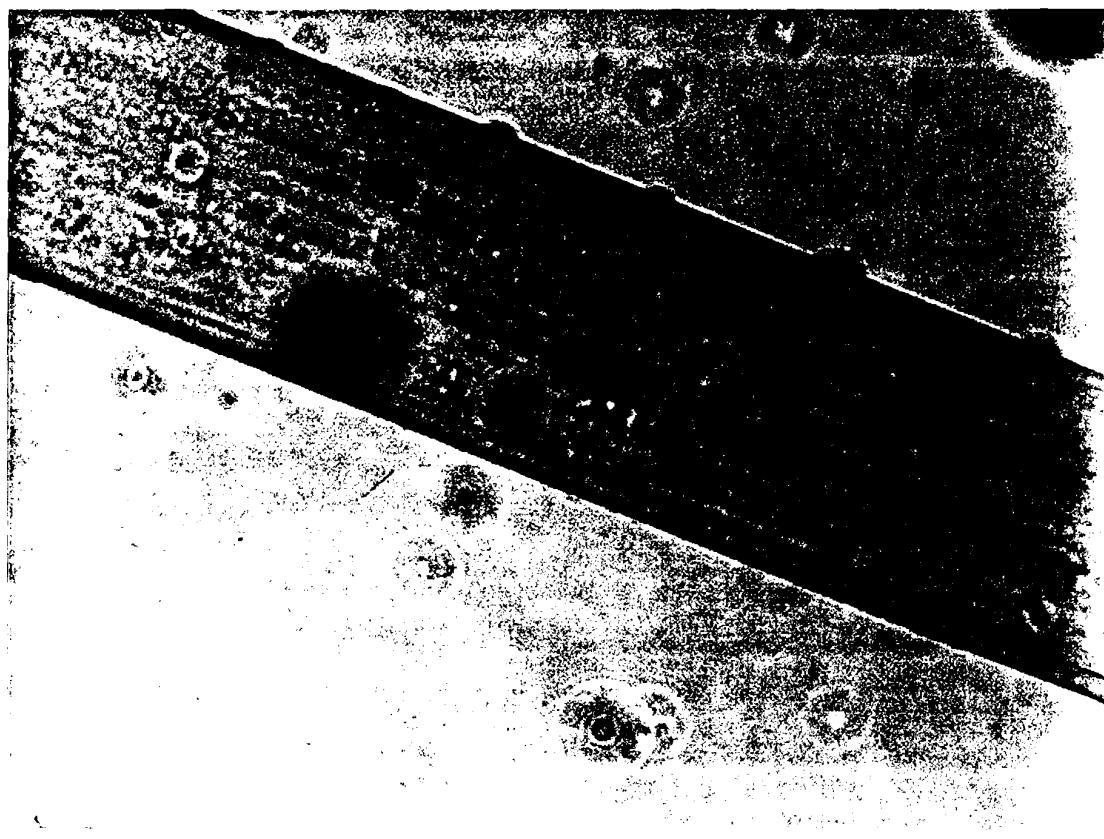
dog 2007 site 5

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Figure 5C 7 Year PVDF Explants



dog 2008 site 6

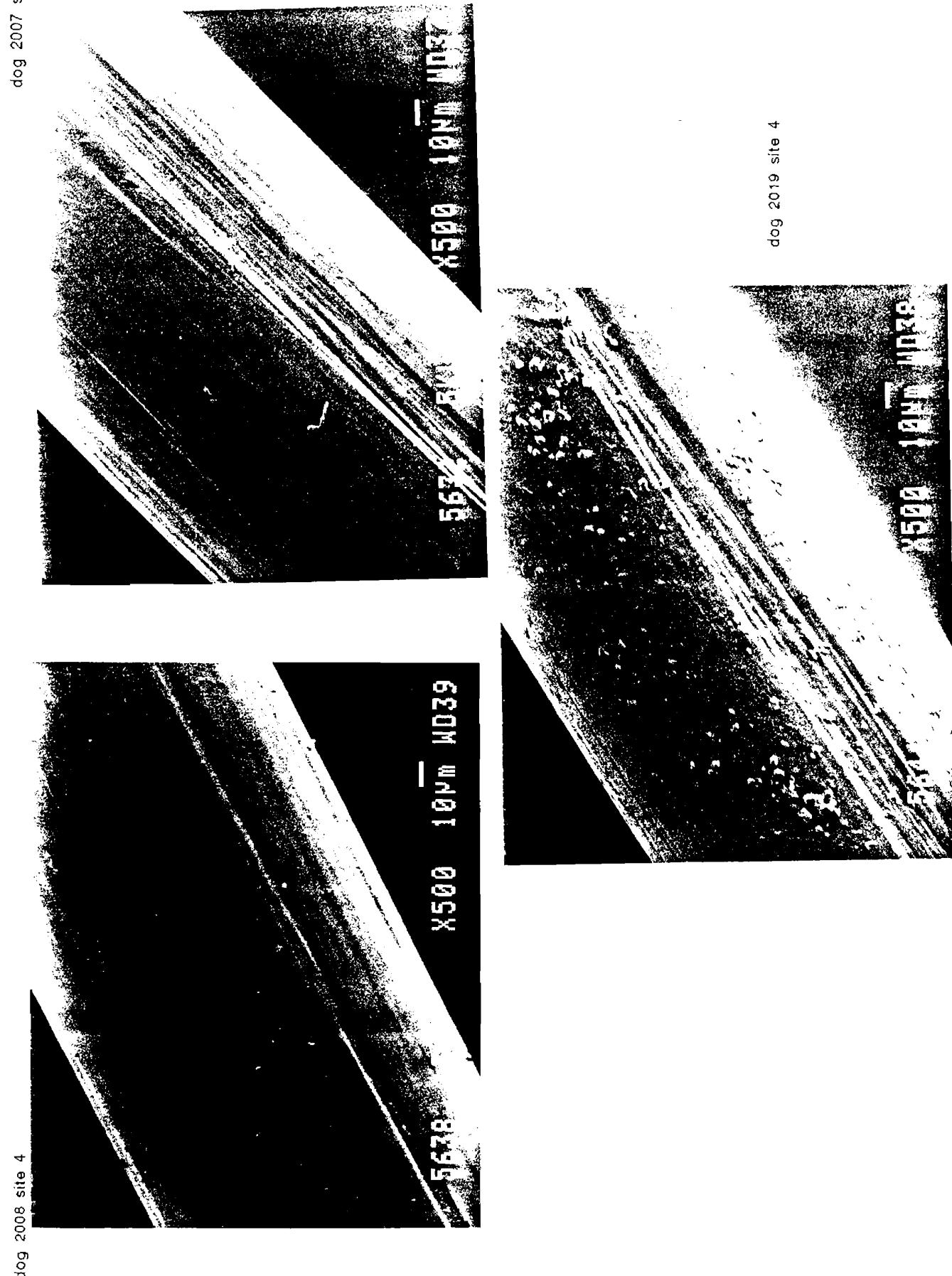


dog 2019 site 4

E. Lindemann 7/15/92 SR# 33985

E. Lindemann 7/9/92 SR# 33985\*

Figure 5 7 Year PVDF Explants



E. Lindemann 7/9/92 SRA# 33985

Figure 6 7 Year PVDF Explants

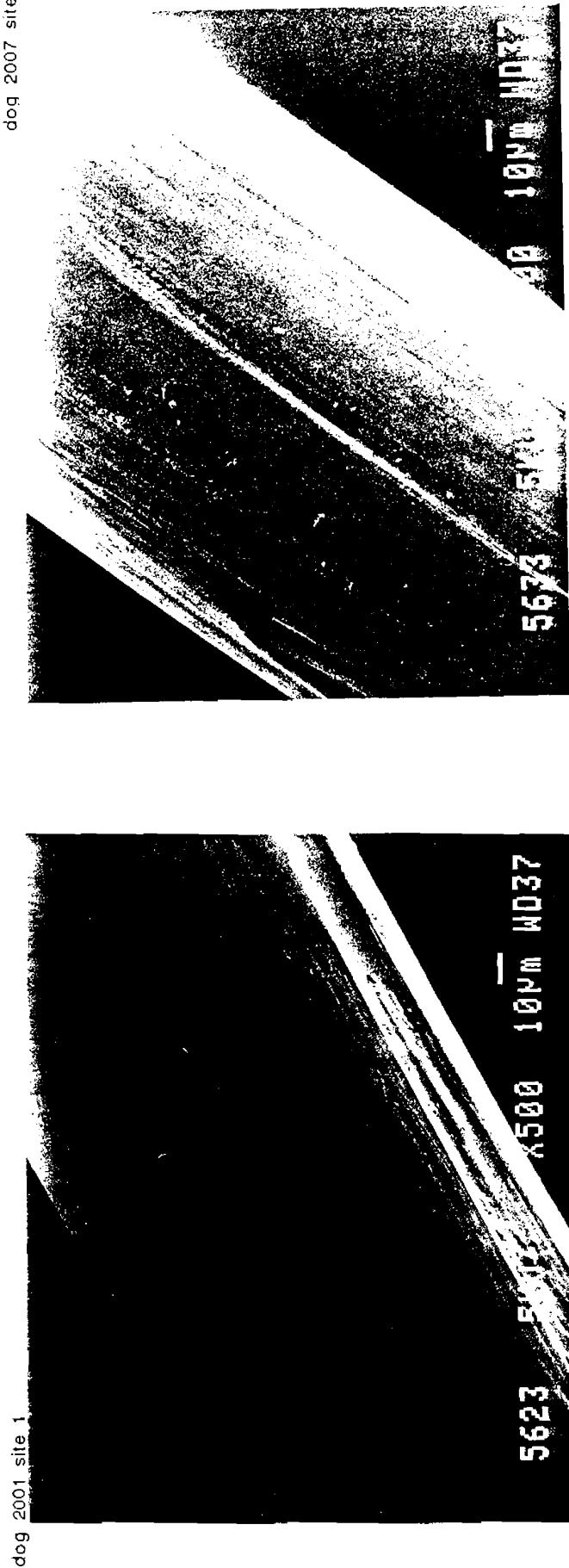
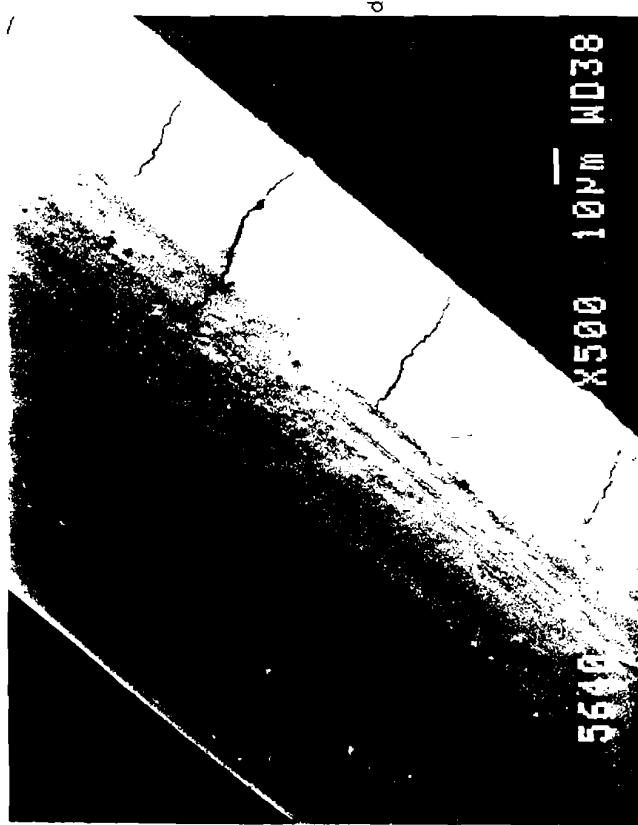
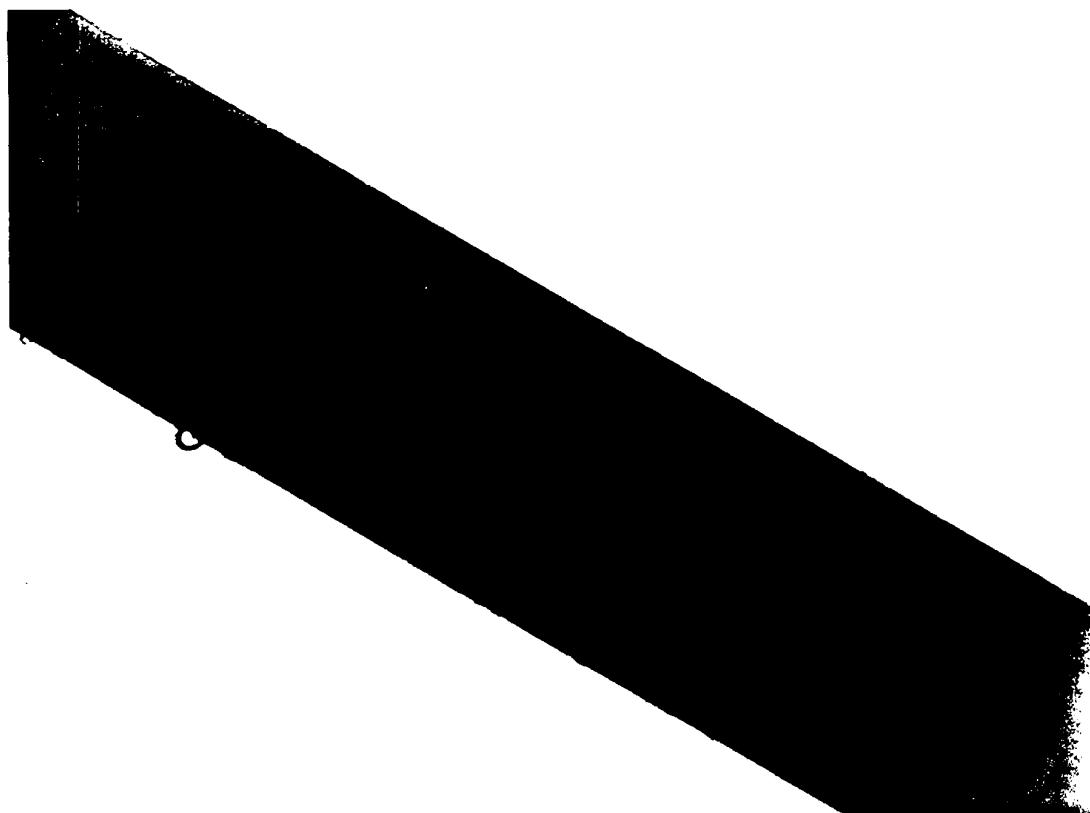
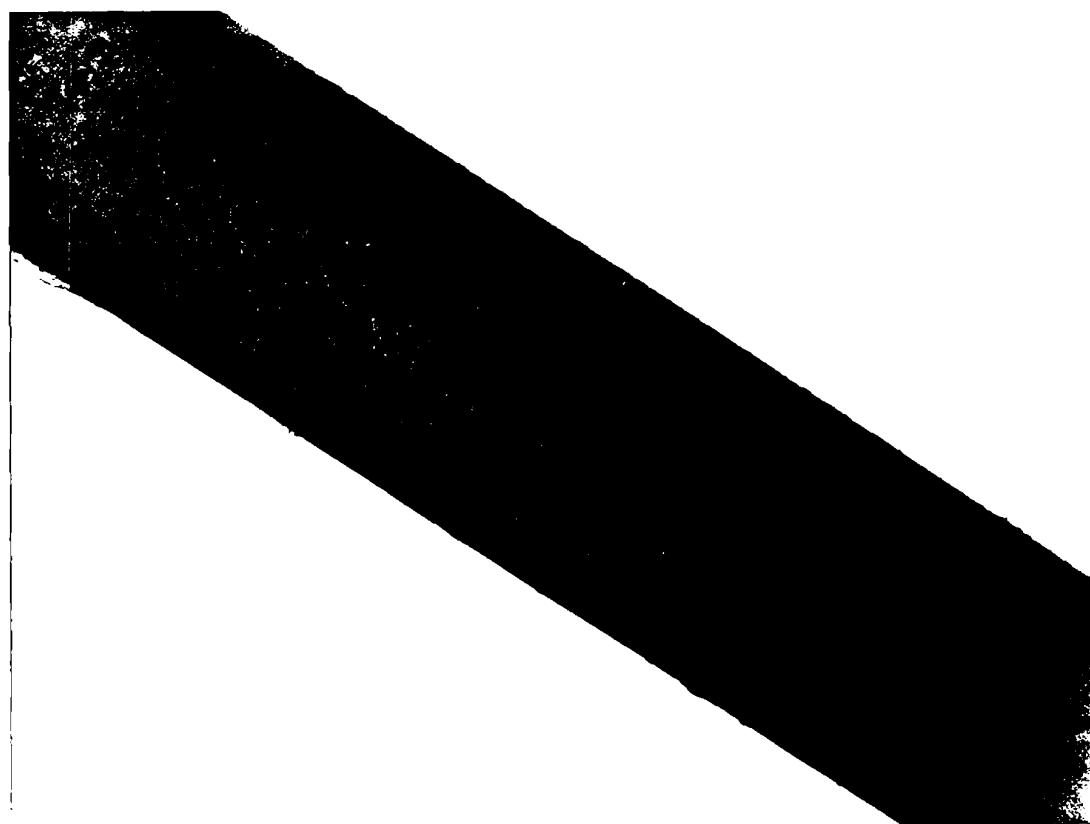


Figure 7A 7 Year Novafil Explants



dog 2001 site 6



dog 2001 site 3

E. Lindemann 7/15/92 SR# 33985

Figure 7B 7 Year Novafil Explants



dog 2007 site 2



dog 2019 site 1

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Figure 7C 7 Year Novafil Explants

dog 2008 site 3



Lindemann 7/15/92 SR# 33985

Figure 7 7 Year Novafil Explants



E. Lindemann 7/9/92 SR# 33985

dog 2019 site 1

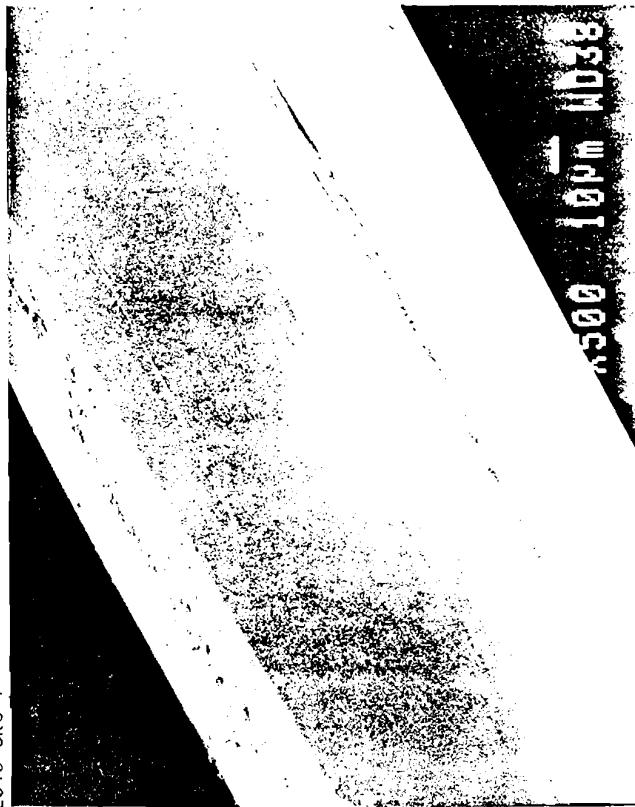
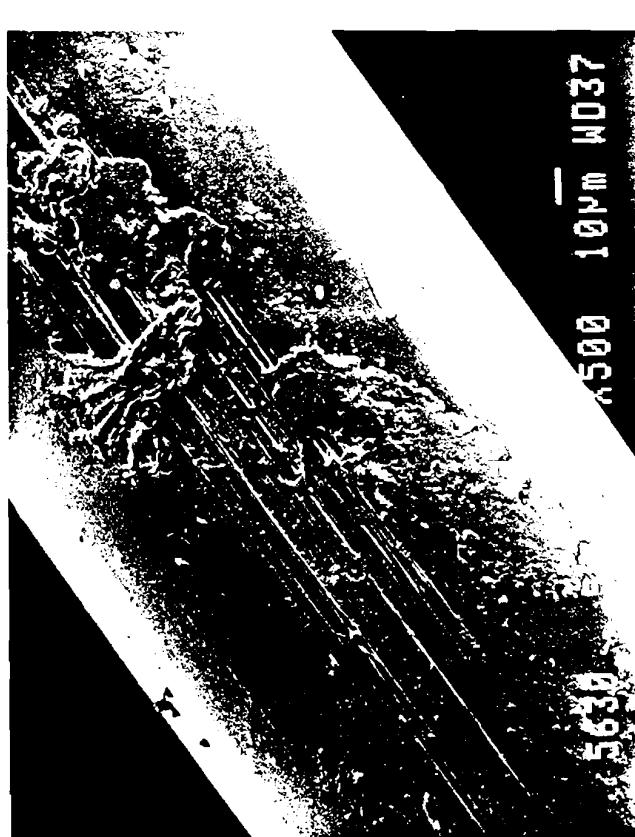
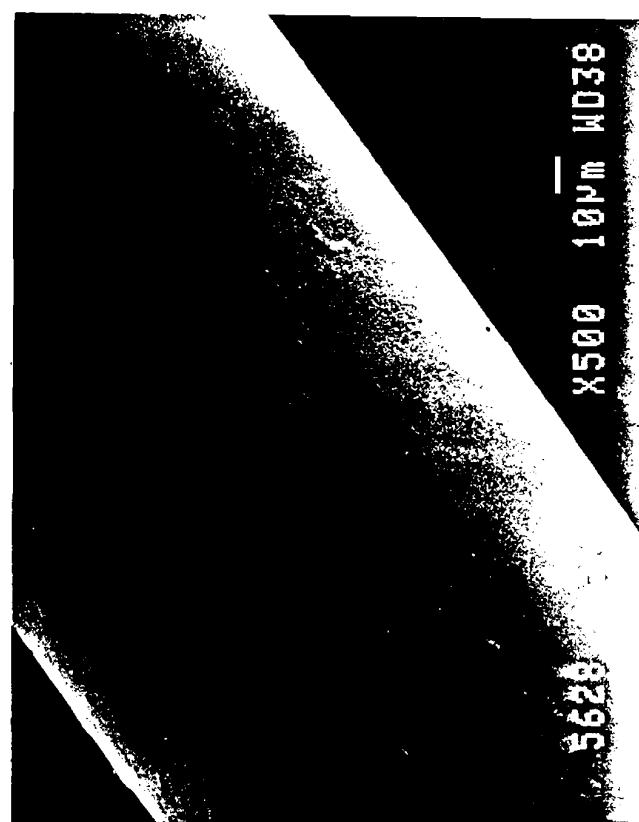


Figure 8 7 Year Novafil Explants



dog 2007 site 2



dog 2001 site 6

SAMPLE CONTROL #  
J 3028ETHICON, INC.  
ANALYTICAL CHEMISTRY DEPARTMENTSERVICE REQUEST #  
34002-92  
34003

REQUESTOR	DEPARTMENT	EXT.	DATE SUBMITTED	PROJECT NO.	REQUESTOR'S MANAGER AUTHORIZATION
V. AGARWAL	64523	X2205	June 23'92	16102	B. Matlaga
SIZE 5-0, DOG #2007 7 YEAR EXPLANT					
SAMPLE IDENTIFICATION, SPECIAL STORAGE CONDITIONS, PRECAUTIONS			ANALYSIS REQUESTED/PURPOSE		
1. NOVAFIL SITE 2 2. ETHILON SITE 3 3. PVDF (Undyed) SITE 4 4. PVDF (Undyed) SITE 5 5. PROLENE SITE 6 6. PROLENE SITE 1			7 Year Explants for [10 Year Prolene BSR Study]		
			IR	GC	GPC
			NMR	TLC	IV
			MS	LC	XRD
			U/V	WET	DEN
					DMA
					EDXA
					OM
					HSM
					SEM
					DYE
					MONO
					COMP
OTHER: FOR OM+SEM DATA SEE SR 34070					
SAMPLE DISPOSITION			NO. SAMPLES		
<input checked="" type="checkbox"/> ATTACHED	SENT TO	SUPERVISOR/ANALYST			
0 CONTACT REO.					
0 RETURN					

TEST REPORT: Samples of each explant were prepared as hot-pressed films by HSM and examined by FT-IR.

SITE 1 - PROLENE : IR spectrum obtained corresponds to polypropylene

SITE 2 - NOVAFIL : " " " Novafil (-polybutoxy ether)

SITE 3 - ETHILON : " " " Nylon 6 (ETHILON)

SITE 4 - PVDF : " " " polyvinylidene fluoride

AB/8/92 SITE 5 - Prolene : polypropylene

SITE 6 - Prolene : polypropylene

SITE 5 - PVDF : polyvinylidene fluoride

Janet F. B. 7/8/92

SAMPLE IV/dlg  
NOVAFIL SITE 2 0.84

ETHILON SITE 3 1.07 Robin R. Ray/land NB 2519-50

Insufficient sample for prolene IV

SAMPLE IV/dlg MW MN MW/MW

NOVAFIL SITE 2 32,000 18,000 1.8

ETHILON SITE 3 57,000 27,000 2.1

Robin R. Ray/land NB 2519-52

MW MN Mw MN C-23-92 P2

Prolene Site 1 322,000 69,000 Current 4/0 324,000 60,000

Prolene Site 6 323,000 63,000

## CONCLUSIONS/COMMENTS:

Comparison of 7 year explants to current 4/0 Prolene sutures indicates no significant degradation

REF. IR file 34003

2562-94

ANALYST Eugene Muse	DATE 10/9/92	ANALYST Robin R. Ray/land	DATE 9/21/92	SECTION MANAGER	DATE
ANALYST/SUPERVISOR	DATE	ANALYST/SUPERVISOR Eugene Muse	DATE 9/21/92	DEPT MANAGER	DATE

SAFETY CONTROL  
J 2095

ETHICON, INC.

SERVICE REQUEST NO.  
33853

## ANALYTICAL CHEMISTRY DEPARTMENT

Samples to Gene Muse → Dan Burkley

Pg 1 of 2

REQUESTOR	DEPARTMENT	EXT.	DATE SUBMITTED	PROJECT NO.	REQUESTOR'S MANAGER AUTHORIZATION
VISH AGARWAL	64523	X2205	19 <sup>th</sup> May '92	16102	B. Mattaga

## SAMPLE IDENTIFICATION, SPECIAL STORAGE CONDITIONS, PRECAUTIONS

Samples from Dog # 1995 on ERF 85-219  
long term Prolene study 6 yrs + 10 months

NOVAFIL (site 4)      NOVAFIL (site 5)  
ETHILON (site 6)      PROLENE (site 3)  
PVDF (site 2)      ETHILON (site 1)

Dog  
Died  
Prematurely

## ANALYSIS REQUESTED/PURPOSE:

IR	UV	GPC	DSC	OM	%	PPM
NMR	TLC	XRD	TGA	HSM	O,	H <sub>2</sub> O
MS	LC		TMA	SEM	DYE	MONO
U/V	WET	DEN	DMA	EDXA	CRYST	COMP

OTHER:

See attached protocol

See SR 33788 for SEM

NO. SAMPLES 

## SAMPLE DISPOSITION

<input checked="" type="checkbox"/> ATTACHED	SENT TO	SUPERVISOR/ANALYST
0 CONTACT REO	Burkley	McBride / Burkley Muse ?
0 RETURN		

OM + IR microspectroscopy (for SEM, see SR 33788) - IR microspectroscopy was performed on representative samples that exhibited surface cracking. The following samples were examined by IR microspectroscopy:

NOVAFIL (SITE 4)      } For these samples, the explant was examined and  
ETHILON (SITE 1)      } pictured by OM prior to examining by IR microspectroscopy  
PROLENE (SITE 3)      }

↓ This sample was examined by IR microspectroscopy without any sample preparation - after which it was gold coated and examined by SEM (see SR 33788).

IR spectra obtained from IR microspectroscopy show no differences when comparing cracked ETHILON with a "control" region of the same explant suture (a region that is not cracked or discolored). The same can be said for NOVAFIL as well. However, expected oxidation absorbancess associated with surface cracking would be masked by the ester carbonyl absorbancess inherent in these materials. Evidence of oxidation was observed for the PROLENE explant.

All samples examined and commented on as described above were originally submitted with SR 33788.

5-19-92 Z

P.S.

Dan FB 5/22/92

## CONCLUSIONS/COMMENTS:

Samples must be refrigerated until tested. Thank you.

Appended

ANALYST	DATE	ANALYST	DATE	SECTION MANAGER	DATE
	5/22/92				
ANALYST/SUPERVISOR	DATE	ANALYST/SUPERVISOR	DATE	DEPT. MANAGER	DATE
					9/23/92

SAMPLE CONTROL #	J2095
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ETHICON, INC.

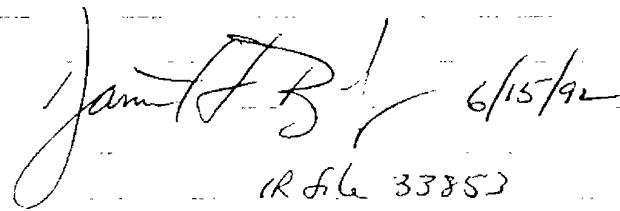
## ANALYTICAL CHEMISTRY DEPARTMENT

PAGE 2 OF 2

SERVICE REQUEST NO.	ANALYSIS REQUIRED	ANALYTICAL SUPERVISOR
33853	GPC, IR Identity	

TEST REPORT: The explanted samples were prepared as hot pressed filters for IR identity. From the IR spectra generated, the explant samples are identified as:

ERF 85-214 Dog 1995 { SITE 1 : ETHILON (Nylon 6)  
 SITE 2 : PVDF (polyvinylidene fluoride)  
 SITE 3 : Prolene (polypropylene)  
 SITE 4 : Novafil (polybutylene terephthalate - polybutoxyether)  
 SITE 5 : Novafil "  
 SITE 6 : ETHILON (Nylon 6)


 6/15/92  
 (R file 33853)

Sample	IV/dlg
Novafil (Site 4)	0.73
Novafil (sites 5)	0.82
ETHILON (site 1)	1.25
ETHILON (site 6)	1.24

Robin R. Ray/MLB NB 2519-31

Insufficient sample for proline IV's

Sample	MW	MN	MW/MN
Novafil (site 4)	32,000	18,000	1.8
Novafil (sites 5)	33,600	18,000	2.0 <sup>current</sup> 1.8
ETHILON (site 1)	62,000	30,000	2.1
ETHILON (site 6)	61,000	31,000	2.0

Robin R. Ray/MLB NB 2519-34

Although there was insufficient sample to run IV  
 GPC of Dog # 1995 Site 3 was compared to a <sup>current</sup> 4/0 Proline suture

	Mw	MN	"
Dog #1995 Site 3	327,000	59,000	
Current 4/0 Proline	324,000	60,000	

Results indicate no degradation has taken place EPM 2562-94

ANALYST SIGNATURE	DATE	REFERENCE
Robin R. Ray/MLB	9/21/92	

SUPERVISOR SIGNATURE

DATE	ANALYTICAL DEPT. MANAGER
	/ / / / /

DATE

C.I. ....



SAMPLE CONTROL #
I 2261

**ETHICON, INC.**  
**ANALYTICAL CHEMISTRY DEPARTMENT**

SERVICE REQUEST #
34066

REQUESTOR	DEPARTMENT	EXT.	DATE SUBMITTED	PROJECT NO.	REQUESTOR'S MANAGER AUTHORIZATION
V. AGARWAL	64523	2205	JULY 2'92	16102	

SAMPLE IDENTIFICATION, SPECIAL STORAGE CONDITIONS, PRECAUTIONS 7 Year Explant Samples from 10-Year Protocol Size 5-0 Dog # 2008			ANALYSIS REQUESTED/PURPOSE
① Prolene Site #2 BSR Study ② PVDF Site #6 ③ ETHILON Site #5 ④ PVDF Site #4 ⑤ NOVAFIL Site #3 ⑥ ETHILON Site #1			IR    GC    GPC    DSC    OM    % : PPM NMR    TLC    IV    TGA    HSM    O <sub>2</sub> MS    LC    XRD    TMA    SEM    H <sub>2</sub> O    ETO U/V    WET    DEN    DMA    EDXA    DYE    MONO OTHER: CRYST    COMP
SAMPLE DISPOSITION	ATTACHED	SENT TO	SUPERVISOR/ANALYST McWayne bulletin mail
			(6) ETHILON Site #1
			NO. SAMPLES

Please keep the samples refrigerated until tested

TEST REPORT: FOR IR Identity, a sample of each explant was hot-pressed into a film on the hot stage, followed by IR examination.

SITE 1 - ETHILON: IR spectrum obtained corresponds to Nylon 6

SITE 2 - PROLENE: " " " " polypropylene

SITE 3 - Novafil: " " " " polybutylene terephthalate/polyethylene

SITE 4 - PVDF: " " " " polyvinylidene fluoride

SITE 5 - ETHILON: " " " " Nylon 6

SITE 6 - PVDF: " " " " polyvinylidene fluoride

all IR spectra verify the identity of the sutures implanted.

7/9/92 J. Janutoff, R. J.

May MN

SAMPLE	IV/dlg	Dog# 2008 Site 2	322,000	53,000
ETHILON #1	# 0.95	Current Prolene 4/0	324,000	60,000
ETHILON #5	1.28	Robin R. Ray/Arch NB 2519-50		2562-94
NOVAFIL #3	0.79			

In sufficient sample for proline IV

SAMPLE	MW	MN	MW/MN	
ETHILON site #1	53,000	27,000	2.0	
ETHILON site #5	59,000	28,000	2.1	
NOVAFIL site #3	32,000	18,000	1.8	

Robin R. Ray/Arch NB 2519-52      7-2-92

CONCLUSIONS/COMMENTS:

Comparison of current prolene 4/0 suture indicates no significant degradation of 7 yr explant

REF IR fil 34066

Analyst T. B.	7/11/92	Analyst R. R. Ray/Arch	9/21/92	Section Manager	Date
Analyst/Supervisor Eugene Mause	10/9/92	Analyst/Supervisor Eugene Mause	9/21/92	Dept. Manager	Date

EI 40-206 (REV 4/85)

ANALYTICAL CHEMISTRY DEPT. CODIV

CONFIDENTIAL

SUBJECT TO STIPULATION AND ORDER OF CONFIDENTIALITY

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ETH.MESH.09888222

ACCESSION 85-219

PROJECT NO. 16102

EXPLANTATION PROCEDURES and SAMPLE DISTRIBUTION

Notify the following people of upcoming explant dates:

Nancy Myirski, x2743: Microscopic inspection - someone from her group will come to inspect the sutures under the dissecting scope under the hood. Samples should be placed after dissection from dog into saline-moistened paper towels labelled with the ERF acc. no., dog no., site no., suture type and date.  
(Ann Leibold was inspector @ 2 yr. time period, 6/87)

Frank Schiller, x3040: SEM - An Analytical Chemistry Service Request form must be filled out and accompany each set of samples.  
Put the sample control number on the top left corner of the sample label. Make one copy for our file and one to send with the samples. Mail original to Dr. A. Melvegar. Label samples the same as for above.

Implantation (Stef or Dan?)

Kevin Sullivan, x2997: Instron - Submit samples after the microscopic inspection, while moist. Fragments are saved in their respective towels for next tests. Refrigerate if there will be a delay between inspection and instroning.

Gene Muse, x3046: Molecular weight - Deliver moist suture fragments after Instroning.  
After testing he will deliver samples to Dan.

Dan Burkley, x3048: I.R. - Receives samples from Gene. Will discard samples when testing is completed.

Explant samples in consecutive order. Dissect both LC100's (dorsal and ventral) from surrounding connective tissue, carefully stripping tissue from the suture surface. Cut one of the LC100's off the sutures at the clip and gently pull the suture bundle through the tissue by gripping the remaining LC100. When free of tissue, moisten with saline and separate one strand from the bundle. Place this strand into a large (15 ml) red-top tube filled with sterile water and labelled as described above. The other 5 strands per bundle are placed in moistened paper towels labelled as described above. The single sutures in tubes are submitted for SEM and the remaining strands are inspected microscopically and tested on the Instron, etc. as described above.

\* 2 request forms per dog: - 1 for SEM + OM + IR microscopy  
for the samples going to J. Melvegar  
- 1 for IR, EPC + IV for the  
fragments going to G. Muse + D. Burkley  
Have JOP sign each +  
send to A. Melvegar.